

Supplementary Table 4. C227-11 versus C227-11-delRM gene expression signature.

Gene name	reference name	strand	start position	end position	C227_sample1	C227_sample2	C227_sample3	C227-RM_sample1	C227-RM_sample2	C227-RM_sample3	log2 fold change	log10 p value	log10 FDR
C8TNI9	TY-2482_chromosome	+	1	630	108.2657936	127.9040707	117.4933172	460.7073411	331.2249858	236.2846695	-1.674208981	9.672567575	8.7621848
Q4E6D2	TY-2482_chromosome	+	2	328	62.74442853	55.60244922	74.27754428	44.00719616	43.67960503	42.17717556	0.622720807	1.914936166	1.5974206
P09748	TY-2482_chromosome	-	21	1145	75.3249493	94.12343034	83.81769793	35.97952038	26.3518352	21.45279859	1.479827099	9.751988159	8.8361523
O07102	TY-2482_chromosome	+	523	996	856.1151583	927.2572209	964.0698405	757.4306533	882.043154	452.1580588	0.328134212	1.085777626	0.8772967
E9Z073	TY-2482_chromosome	+	606	1514	159.8562806	180.0163125	182.3293323	89.82984095	103.8086942	88.31066936	0.877592379	5.13761463	4.5048023
D3GUR0	TY-2482_chromosome	-	778	2049	88.95562947	103.9808205	78.22410551	91.45740633	105.7257785	55.99222846	-0.028452947	0.141242426	0.1034206
A0A1K7	TY-2482_chromosome	-	1029	1549	207.3308183	166.4085529	191.4767895	158.6026273	211.2613245	164.6649765	0.136748542	0.166250392	0.1223287
B7LWV4	TY-2482_chromosome	-	1763	2164	641.6926831	641.1045919	584.1045239	403.1557006	411.5154066	185.25889	0.786776151	3.522242792	3.0254616
Q6JB04	TY-2482_chromosome	-	1789	2346	117.7884515	168.1246272	148.6081519	29.77154391	27.31154623	21.36793121	2.361240492	23.11185797	21.751365
B7LWV2	TY-2482_chromosome	-	2268	3062	909.9610335	1032.202167	976.4707587	751.2132707	528.8370309	113.4047735	0.838905144	2.487150925	2.1047264
D9Z518	TY-2482_chromosome	-	2359	2970	221.0402272	279.8986533	278.8007777	70.14173734	69.29063082	29.84375314	2.079660373	18.08690845	16.852444
P0CE57	TY-2482_chromosome	-	2658	3638	229.7615191	196.6675748	202.5677524	118.7706717	114.6181413	132.6900832	0.819356183	4.107908203	3.558478
Q6JB02	TY-2482_chromosome	-	2990	4072	179.9368812	223.3318916	222.6629074	95.58001841	81.88700005	71.37998304	1.263261538	9.581190787	8.67772
E7JSW2	TY-2482_chromosome	-	3233	3600	218.0803165	301.5006197	237.5033364	61.01576623	85.78846784	37.61787157	1.900987845	15.73654071	14.567154
B7LFP9	TY-2482_chromosome	+	4028	4598	535.2454405	589.9298697	636.0222137	646.2376835	578.7176416	682.630921	-0.103142392	0.240922561	0.1788332
Q6JB01	TY-2482_chromosome	-	4088	5638	214.538571	214.3622573	237.1849845	135.5837284	100.8976769	126.22091	0.881089574	4.810245264	4.2012794
Q9S110	TY-2482_chromosome	-	4531	4899	553.2636565	557.1392527	644.6588878	756.6440053	635.1144642	786.5371375	-0.279756105	0.898346342	0.1717115
P71290	TY-2482_chromosome	-	4817	5122	281.0841756	271.5034046	324.4576422	427.001524	322.9138381	465.3520203	-0.421705046	1.558333357	1.2870889
D3GUQ6	TY-2482_chromosome	+	5035	5241	155.3612341	189.3347264	166.2951298	8.339870043	5.464775752	0.265243807	4.932829737	60.89564763	58.816086
B7LBU5	TY-2482_chromosome	+	5193	5498	150.842041	186.7940045	167.6672955	291.565198	241.0331723	340.3180357	-0.809732618	3.691806202	3.1751628
D3GUQ5	TY-2482_chromosome	+	5272	5496	161.2840197	209.4962376	178.1736257	8.913554309	3.555936009	5.366868489	4.802334655	60.12129475	58.053014
Q9S110	TY-2482_chromosome	-	5574	6008	362.693308	338.3514846	379.759366	449.8859907	391.2307623	482.604905	-0.253604106	0.801574852	0.6372182
Q6JB00	TY-2482_chromosome	-	5652	6101	53.59841748	66.36995518	66.16406033	34.82026979	26.26915235	41.71890367	0.856740431	3.159225073	2.6990859
D3GUQ4	TY-2482_chromosome	+	5771	7318	218.9012842	271.6169025	237.6044927	48.22882268	45.53952956	32.03744164	2.42796498	28.919569	27.444915
P71290	TY-2482_chromosome	-	5926	6231	281.8891234	288.4859266	285.8585207	386.2861416	311.1204827	401.0348379	-0.35986772	1.095279507	0.8847947
Q6JAZ9	TY-2482_chromosome	-	6091	7383	237.8124964	237.0265702	231.6696975	130.6753714	103.6031227	156.0851834	0.878196536	4.355437098	3.7877584
B7LB68	TY-2482_chromosome	+	6302	7822	1089.633527	1058.853147	1042.4243	1829.126616	1587.969907	1769.464117	-0.707487707	3.221360505	2.7566401
Q83Z99	TY-2482_chromosome	+	7347	7296	71.94466925	53.44512155	69.43761057	10.23296379	19.28843616	8.272823066	2.416412364	14.72697983	13.599113
C7SA78	TY-2482_chromosome	-	7379	9058	431.6084386	402.1324306	388.7192617	178.4685756	194.7715185	189.4493884	1.13070094	7.349947624	6.5753974
Q3Z7G0	TY-2482_chromosome	+	7900	8397	154.311224	129.4509689	122.5243438	131.5332969	117.3647	115.9134595	0.14563432	0.35364052	0.2672826
C3VUZ6	TY-2482_chromosome	+	7952	9223	81.39679021	89.80598901	87.15860878	17.74032958	12.63216909	22.02290457	2.307204321	17.64493304	16.423338
B7LWV0	TY-2482_chromosome	-	8595	8942	12967.80272	18052.69759	18461.15927	6558.949899	8096.090309	3476.940578	1.342810901	3.088022968	2.6381923
Q6JAZ7	TY-2482_chromosome	-	9075	9509	54.79424402	42.45037176	46.77603275	15.03071821	13.59824435	18.22485718	1.678345808	7.865699644	7.0551587
D3GUQ7	TY-2482_chromosome	+	9219	11318	139.5225441	196.1540463	162.3433289	24.42106639	30.89936801	45.39195604	2.311859746	21.05008742	19.739047
P0CE57	TY-2482_chromosome	+	9296	10276	248.3762144	219.890696	237.0153303	158.7794432	138.2044105	202.0773227	0.563383605	1.776653705	1.4777121
C7SA80	TY-2482_chromosome	-	9512	10576	155.5948277	154.3917197	142.4373782	62.42369807	54.53349352	65.63890432	1.300036471	9.764391381	8.8461973
B7LWV8	TY-2482_chromosome	+	10854	11069	194.7759507	283.8377698	250.2946961	18.69551105	33.88958307	16.23162681	3.32474174	38.7638639	37.053908
P16943	TY-2482_chromosome	+	11255	12280	668.6441886	644.0018092	607.2411824	153.1112499	169.3745036	116.284324	2.086550052	21.43182326	20.112922
E9LMM5	TY-2482_chromosome	-	11626	11922	36.03785738	27.15419573	33.01647542	16.67003701	33.00068515	14.92154969	0.62500995	1.181257595	0.9593454
Q6JAZ2	TY-2482_chromosome	-	12052	12732	62.84433041	64.07124049	57.26278115	10.75796207	22.95526141	10.85910746	2.027024501	11.63802689	10.631894
B3HJU4	TY-2482_chromosome	+	12594	14385	1998.117558	2094.187021	2152.438157	644.725667	631.5143415	764.0600975	1.641021298	13.84117073	12.742291
Q6JAZ1	TY-2482_chromosome	-	12929	13519	83.32401943	78.75968641	50.83284875	11.62099237	16.4556283	11.98234027	2.344666993	15.03268174	13.894474
C8UMU7	TY-2482_chromosome	+	14018	14524	31.7689477	45.71891784	49.208013	40.06075172	43.73408505	34.46577177	0.061606088	0.128567998	0.0938138
Q2VNV1	TY-2482_chromosome	-	14169	14429	2050.281273	1700.111786	1328.417035	285.8220322	1002.799378	221.0206095	1.72849245	5.805921395	5.1247563
B7LWV1	TY-2482_chromosome	-	14363	14596	119.0332512	108.5339238	104.1388627	42.06475883	81.25295413	48.99911229	0.971186759	4.17505372	3.6205365
B7LG70	TY-2482_chromosome	+	14580	15236	113.6282442	113.6078911	117.5525441	97.2438516	93.722842	92.17436183	0.281981395	0.818533178	0.6509693
B7LWV0	TY-2482_chromosome	-	14742	14987	150.3213708	142.2849998	151.8904161	118.4078554	196.850786	109.7479767	0.079600866	0.108783183	0.0798654
E1JE00	TY-2482_chromosome	-	15109	15426	630.2806831	657.220432	722.498202	263.556811	274.744335	393.982281	1.188002825	6.562029929	5.8336333
B7LG74	TY-2482_chromosome	+	15260	15565	71.03050258	78.80243362	63.78009826	29.18601203	41.03536912	35.52941123	0.990692067	4.489250036	3.9094474
B7LWU9	TY-2482_chromosome	+	15334	16494	381.4322315	356.1340489	377.0063996	208.4895916	231.5208991	19.91284731	1.123036865	2.592960752	2.200082
C8TW44	TY-2482_chromosome	+	15402	16430	585.8810814	454.786229	476.4940501	331.6959693	287.4885028	349.7605784	0.690559032	2.691992814	2.2886429
E3PN47	TY-2482_chromosome	+	15519	15794	27.28728259	38.33988673	43.98912564	9.465975302	19.27201266	10.74882931	1.479571431	5.230977455	4.5890825
B7LWU8	TY-2482_chromosome	+	16494	17729	640.1712953	658.881743	585.4064668	402.9463051	261.2893488	12.00011781	1.204778487	2.316742076	1.9545001
E9LLT7	TY-2482_chromosome	-	16994	17278	69.43945915	83.61316646	67.80280027	30.16749504	41.13101778	19.0256296	1.184714719	5.874146202	5.1879284

C8UMV2	TY-2482_chromosome	+	17360	20038	34.82492317	60.74813824	38.00426578	129.2830578	130.2907868	56.25936776	-1.487813267	4.475867362	3.8975088
C7S9Z5	TY-2482_chromosome	-	17506	18012	584.0393441	594.9112565	574.9891414	367.6339855	307.5856659	251.7755587	0.852923481	4.932398607	4.3156285
B7LWU7	TY-2482_chromosome	+	17629	18447	593.0288232	655.4544825	521.2302228	322.6092478	226.7484019	9.333900256	1.368119103	2.822085103	2.4020138
Q68JD7	TY-2482_chromosome	-	18071	18670	821.6447022	980.4872651	932.9530926	475.3111957	371.2339754	363.3936867	1.101524349	7.768581202	6.9665681
B7LWU6	TY-2482_chromosome	+	18443	19069	356.1016759	337.3741686	304.102373	154.8345443	110.235693	9.261221004	1.629870504	4.650441861	4.0566759
E6AXF5	TY-2482_chromosome	-	18628	18849	120.9387534	148.286552	134.6695495	66.26707035	49.09695402	41.22808388	1.257101451	9.184060256	8.2977693
C7S9Z7	TY-2482_chromosome	+	18933	20366	663.1534718	756.6713746	730.9097417	792.9129315	687.9513622	697.4082239	-0.062069179	0.033241828	0.0226989
B7LWU5	TY-2482_chromosome	+	19089	20297	245.9718064	259.877864	249.5172868	96.71170493	103.1121234	14.46899043	1.647537221	6.547850643	5.8209788
D3QYQ9	TY-2482_chromosome	+	20378	20599	47.24219683	35.20509723	45.64921478	26.03826344	38.37796064	22.74286879	0.610988485	1.397926401	1.1469125
B7LFS5	TY-2482_chromosome	+	20550	21779	33.52408396	46.57317383	30.70265586	106.7741303	83.65676633	85.70122585	-1.45925463	7.235471022	6.467105
P03008	TY-2482_chromosome	-	20860	23652	477.2504162	415.7174546	444.2983076	283.4189607	332.2097929	320.9624237	0.561413686	1.950449382	1.6281635
B7LBV5	TY-2482_chromosome	+	21275	22405	218.2180978	271.0856091	212.3237688	106.9689137	128.4339727	91.1765091	1.010044274	6.635597427	5.9015639
E1U309	TY-2482_chromosome	+	21915	22609	67.40730306	66.55127505	55.82719483	64.25626504	77.45436767	56.89454942	0.115958027	0.605598027	0.0850013
B7LFP0	TY-2482_chromosome	-	22521	24086	203.5242245	188.3473498	181.398241	171.5001577	166.5423115	154.1031975	0.205900266	0.583144302	0.4527154
Q9LA20	TY-2482_chromosome	+	22628	23468	69.62384192	51.23073986	74.90436309	54.1525325	51.00046227	35.99688692	0.508516065	1.299397229	1.0598422
A5JTS3	TY-2482_chromosome	+	23666	23995	1978.654583	2094.1806	2168.969189	3909.429897	3879.528495	4058.621795	-0.918113478	2.012293531	1.6823458
Q6BBP7	TY-2482_chromosome	-	24048	24920	93030.98405	100199.3625	108173.0822	199027.4565	172937.0253	194105.7606	-0.907862529	1.446923212	1.1893227
B7LA97	TY-2482_chromosome	-	24120	24467	130.2068734	116.6907841	123.4309486	75.83528235	115.7970227	68.88985341	0.522105795	1.676306324	1.3904244
B7LA98	TY-2482_chromosome	-	24467	24901	175.7757797	184.6324994	154.2027425	119.4635077	131.0985155	112.0271677	0.457966588	1.929078374	1.6095815
C6UQD7	TY-2482_chromosome	+	24997	25194	311.9406018	293.8724053	282.4233359	148.3758295	162.0429397	137.0475439	0.978065487	5.975359378	5.2844967
D9Z5B6	TY-2482_chromosome	-	25179	26441	5758.182153	6590.783538	6270.913179	6257.051624	6248.695818	1360.612363	0.242922121	0.449628216	0.3434634
B7LBW0	TY-2482_chromosome	-	25495	29586	10307.35998	10921.32163	10917.67142	3948.586252	3773.873609	5357.875001	1.341526177	3.005669391	2.5653841
D8AHZ6	TY-2482_chromosome	+	26082	27023	124.7591889	148.1050842	125.2794692	69.10542859	72.87996829	50.46113462	0.95698702	6.131136169	5.4308319
C7S9E2	TY-2482_chromosome	-	26623	26997	83.44524944	114.323063	101.7123831	87.55571667	128.4666182	98.83145828	-0.108637865	0.14245597	0.1400788
B7LWU0	TY-2482_chromosome	+	26915	27556	247.210492	313.3776488	312.4766725	301.4833236	312.1871336	267.3259529	-0.056376639	0.022669143	0.0152692
P59697	TY-2482_chromosome	-	27147	27603	56.54582703	93.73459517	55.01615565	5.330666949	18.42129182	9.372752444	2.512736431	13.72490327	12.630224
Q8FEA4	TY-2482_chromosome	+	27522	27758	49.97902318	38.17660717	19.60797233	8.579234231	26.68257857	10.88530711	1.192592463	2.954604167	2.5192733
C8UQP5	TY-2482_chromosome	+	27742	28599	6336.204581	7320.032055	7440.992343	28599.522103	3441.813063	3248.41394	1.013770168	2.231533211	1.8779687
D3GX03	TY-2482_chromosome	-	28757	29109	123.5658404	106.3522037	106.8010453	84.31449353	69.10050841	73.76099538	0.56245693	2.313789708	1.9524233
Q513K9	TY-2482_chromosome	-	29017	29682	165.2551907	160.1817437	169.0596671	128.4938699	121.8561858	166.6071376	0.299660083	0.656961788	0.5138887
C1J8J6	TY-2482_chromosome	-	29173	29796	1895.408986	2374.331739	2507.874243	865.056737	903.9395001	265.8446687	1.592910295	7.861147493	7.0512213
C1MF88	TY-2482_chromosome	-	29773	31311	567.5055224	605.1227271	599.5087368	783.1688531	619.530713	1196.149703	-0.487868565	1.776954811	1.4777121
A7ZH69	TY-2482_chromosome	-	29898	30533	147.9232792	176.4612447	151.7165827	66.72226537	72.05554833	29.83933491	1.359498172	8.813757793	7.9446973
Q8Z1G9	TY-2482_chromosome	-	30003	31271	183.7810919	237.3538051	182.6168506	81.02259523	72.79456663	64.73519702	1.350338531	11.41763041	10.422927
B7LX00	TY-2482_chromosome	+	31115	31978	64.16515233	71.86989975	72.03650749	93.5131068	72.83898707	36.44386204	-0.091479012	0.028365016	0.0190323
Q6EMF3	TY-2482_chromosome	-	31274	31708	95.74721818	79.05071064	103.9151892	57.8658092	55.50627724	52.75052099	0.797857998	3.305198342	2.8305441
A7MPV8	TY-2482_chromosome	-	31298	32932	559.3844617	538.8313331	562.5378924	1074.203071	843.4185474	1506.810497	-0.974021923	5.784011023	5.1051233
C1J8J3	TY-2482_chromosome	-	31708	32115	89.05447921	87.44320292	79.69905129	38.79300237	35.45578076	38.14713735	1.169457375	6.732476052	5.9922085
B7LWZ9	TY-2482_chromosome	-	32281	32880	41.00566042	52.44616908	40.05886133	33.04309403	30.95831916	24.01007484	0.486293819	1.491732962	1.2285867
Q19NM8	TY-2482_chromosome	-	32935	33972	426.4185598	396.7467445	361.5433656	638.9250662	432.0292204	873.928043	-0.670370816	2.608821921	2.213349
D3H5C8	TY-2482_chromosome	+	33211	33591	64.12249319	58.5443976	88.39648401	84.11323552	99.54193363	7.856671645	0.061656207	0.125704821	0.0925136
Q19NM7	TY-2482_chromosome	-	34060	34698	860.8949316	801.2636937	751.1282749	838.6920769	921.3824666	988.7797644	0.000874518	0.034822351	0.0237391
E1U309	TY-2482_chromosome	-	34255	34938	186.9110888	207.5934903	175.3931167	87.60744991	83.76019834	63.58425809	1.189792463	9.184915199	8.2978913
P75012	TY-2482_chromosome	-	34698	35333	1208.602373	1100.558684	1134.220032	1124.416167	836.1640857	1271.722957	0.125632737	0.17182911	0.1269588
D3H556	TY-2482_chromosome	+	34979	39662	422.389986	473.3220681	447.6118004	469.7623471	351.1314785	485.1798896	0.018886076	0.069201334	0.0496409
Q19NM5	TY-2482_chromosome	-	35359	36075	1020.016599	1088.883272	973.0055803	769.1138842	613.2398773	837.7101539	0.455491298	1.781872484	1.4812229
P75010	TY-2482_chromosome	-	36461	36925	274.514543	243.2605501	274.7379568	359.8984856	292.1904685	254.0618609	0.022763492	0.016105866	0.0104508
C6UQE2	TY-2482_chromosome	-	36946	38151	362.692681	353.2839836	365.7821767	267.5801442	316.7213323	328.7179587	0.286911872	0.643371041	0.5026709
C6UQE3	TY-2482_chromosome	-	38165	40233	483.2337238	385.780772	483.468473	295.1831663	325.7758467	377.2493972	0.541384088	1.453085325	1.1939322
D3H5D8	TY-2482_chromosome	+	38970	40931	62.73702326	62.36371097	69.46215534	64.57268638	39.85275528	71.89835228	0.174165318	0.249742223	0.1854517
C6UQE4	TY-2482_chromosome	-	40202	40972	118.9903236	94.63807441	123.0119532	70.30608173	89.15146753	120.3541178	0.415889259	0.671277888	0.5255493
B7LWY8	TY-2482_chromosome	+	40486	41043	443.2118249	537.4688423	519.0293533	429.6862108	370.3281868	399.9739672	0.279982511	0.940095693	0.7526283
C6UQE5	TY-2482_chromosome	-	40968	42107	106.5599715	83.21610867	75.53799871	55.73063352	59.89946758	127.5416234	0.270609553	0.182092792	0.1345766
B7LA98	TY-2482_chromosome	+	41272	41706	159.3545212	149.7695161	149.1203194	108.0227155	153.9743635	105.5983338	0.325155695	0.908564945	0.7259061
C1J8T1	TY-2482_chromosome	+	41420	42136	37.88043768	54.72262655	43.48920606	16.09074021	12.59208833	31.9790735	1.177453673	3.691185734	3.1748549
D3GV17	TY-2482_chromosome	+	41706	41999	85.23984496	85.11634058	84.46897459	58.36074372	76.61444594	43.9678942	0.478003175	1.556135902	1.2850691
B7LBX6	TY-2482_chromosome	+	41950	42261	93.32446007	100.5922115	107.7759603	45.97248039	58.40642911	30.86440134	1.118980705	6.087524314	5.3900742

C8UMS5	TY-2482_chromosome	-	42120	43184	90.86255395	65.77944064	67.06281608	55.63800425	62.81919683	60.51333947	0.371642037	0.803093708	0.6383201
C1J8T0	TY-2482_chromosome	+	42136	42729	47.74217379	53.69559654	51.50221227	22.38691669	29.99083937	45.31828701	0.722539405	1.815786212	1.510549
D3H551	TY-2482_chromosome	-	42321	43889	1656.5778	1494.672917	1529.677879	187.1612206	170.1129042	199.8065035	3.095468858	47.83293444	45.993133
C7SA25	TY-2482_chromosome	+	42804	43691	107.8925947	83.96320845	96.36067659	28.53850981	53.08428852	20.41011477	1.520222866	7.500555782	6.1791571
C8TNH3	TY-2482_chromosome	+	43498	44076	925.1610767	843.0193219	878.7317072	515.7656568	594.2512281	685.0641377	0.624363825	2.226629508	1.8737089
C8TX27	TY-2482_chromosome	+	44079	45233	1661.170694	1430.317752	1402.12436	919.1015698	919.9804238	1220.367321	0.615047518	2.041611921	1.7079871
C1J8S7	TY-2482_chromosome	+	44084	44854	145.0073168	159.0286877	143.8108455	60.28297149	111.1908566	95.88359898	0.780004296	3.028577734	2.585398
D3H553	TY-2482_chromosome	-	44259	44933	37.53722932	35.74266294	28.72836265	22.22227984	27.37595331	19.97001223	0.511435747	1.21992434	0.9909763
C1J8H1	TY-2482_chromosome	+	44858	45214	46.28457022	51.0800309	47.48175148	10.92770673	32.93011345	29.90351304	1.059233946	2.999198476	2.5596992
C8TX26	TY-2482_chromosome	+	45259	45711	735.5021579	540.200313	592.058722	606.6791501	534.0796594	749.4035434	0.067247621	0.024637419	0.0164728
C1J8S5	TY-2482_chromosome	+	45319	45780	92.37628862	136.7280813	111.5251063	61.68319059	65.5493446	59.32717825	0.77868478	4.000198118	3.4591172
POCE57	TY-2482_chromosome	-	45664	46644	248.1492672	297.2261732	244.0645788	187.5545286	127.2495259	174.8260013	0.613327262	2.832998587	2.4116991
C8TX25	TY-2482_chromosome	+	45737	46774	1996.188608	1621.710922	1812.319044	2326.574149	2045.657363	3052.906226	-0.363059559	0.856931968	0.6823131
Q68J76	TY-2482_chromosome	+	45780	46691	1084.247912	1136.061673	1186.545945	1007.392908	1048.404714	961.8586668	0.17181646	0.41338806	0.3146663
C8TW70	TY-2482_chromosome	+	46723	46959	410.3887183	448.1690711	470.2377482	377.7950594	383.1898425	296.445014	0.294651958	0.934921451	0.748186
Q79RI5	TY-2482_chromosome	+	46922	47173	307.2991395	334.1424868	300.2596589	190.4896825	227.6723199	138.7690948	0.688350041	0.328851793	2.8513238
C1J8S2	TY-2482_chromosome	-	46996	47244	141.0981248	171.7613878	165.8033262	139.0613212	178.5214408	121.466848	0.081737227	0.243932588	1.808541
Q19NL2	TY-2482_chromosome	+	47268	48045	4053.273585	4005.638317	4059.109959	6703.692125	6734.341744	7638.242794	-0.773542537	1.460898437	1.2007071
C8URD0	TY-2482_chromosome	+	47481	47666	389.8138239	360.5412341	314.5879317	116.2943609	205.0309198	126.6862252	1.250681055	7.292725502	6.5209972
C8URD0	TY-2482_chromosome	+	47629	48306	175.5884345	190.5820774	198.1909835	117.8461595	141.0810941	147.1582969	0.507643111	1.7444806	1.4511842
C8TX21	TY-2482_chromosome	+	48479	49717	585.6484253	518.7635701	565.1758741	329.2001998	382.1955729	465.2473833	0.58970073	1.828435692	1.5224292
D9Z504	TY-2482_chromosome	-	48762	49100	194.399393	195.9105722	198.0696375	98.76457838	175.0994721	71.8913662	0.741235146	2.682941471	2.2810344
B7LWY0	TY-2482_chromosome	+	49217	49498	478.0019945	430.7404963	429.0155188	282.3542536	294.879741	272.4568883	0.660981286	9.27287178	2.4947991
C7SA35	TY-2482_chromosome	+	49328	49657	421.6643407	468.1442561	436.3520515	243.0683446	233.8750651	225.094059	0.879671106	5.253836851	4.61027
B7LWX9	TY-2482_chromosome	+	49501	49773	406.0585876	374.6020034	434.6138953	329.5927854	327.5922695	351.177409	0.315289026	0.743815158	0.5877153
C8TW76	TY-2482_chromosome	+	49671	52367	1901.744028	1826.853948	1948.412054	1258.53601	964.5249246	1232.565278	0.72637393	3.256014256	2.7865903
D9Z536	TY-2482_chromosome	+	49782	50024	470.2352338	512.4524974	524.325645	362.4647601	370.3947667	361.8426272	0.456070672	1.634503896	1.3545239
B1VCJ6	TY-2482_chromosome	-	49986	50270	524.9362016	535.7923829	533.4529138	396.7318889	383.1230005	371.1157728	0.456114655	1.755990726	1.4608207
B7LWX4	TY-2482_chromosome	+	50759	51496	124.1304559	140.213303	107.9268009	95.71245593	101.9224835	106.4716763	0.245123536	0.781256873	0.61967
B7LWX3	TY-2482_chromosome	-	51781	52755	2752.670037	2877.382076	3043.150715	4062.829266	3247.883582	3612.726274	-0.348508688	0.450412681	0.3438569
C8TPC9	TY-2482_chromosome	+	52317	53099	56.05077918	54.5762442	58.82471667	38.10974026	30.84465377	43.14695273	0.626279868	1.875326208	1.5638958
Q68J84	TY-2482_chromosome	-	52410	52958	396.3178132	429.3076814	373.4821224	229.2958785	232.0982488	196.3150513	0.807643316	4.609547673	4.0198701
C8CGL3	TY-2482_chromosome	-	53068	53553	67.35745447	69.01145101	58.50949459	18.84637629	46.60606682	37.97623789	0.965228253	3.095708327	2.6442662
B7L682	TY-2482_chromosome	+	53074	53435	200.3943002	234.9731395	169.8995906	106.9373904	107.3602475	116.9737895	0.801377444	4.572857353	3.9868634
D9Z540	TY-2482_chromosome	+	54052	54810	843.3186907	1016.503547	967.2945683	342.4158219	385.8394225	453.5040052	1.272244102	8.922184343	8.0450274
C6UQI7	TY-2482_chromosome	+	54456	56852	82.59635231	51.53231868	70.66895822	84.6483458	68.11527085	106.0475817	-0.210252095	0.737988357	0.582161
D9Z502	TY-2482_chromosome	-	54694	55767	188.4622609	195.279367	174.7719731	60.72427818	75.5752281	74.87245209	1.408437197	11.32324508	10.331352
D8EV54	TY-2482_chromosome	+	54804	55199	89.9979987	82.05739723	63.56731642	49.94091163	50.98284377	44.90984455	0.645881973	2.472794741	2.0919741
B7LX17	TY-2482_chromosome	+	55269	55544	254.2865794	254.855052	238.8618852	204.534904	241.1821173	253.7098332	0.118626188	0.195988347	0.1447407
B7LX16	TY-2482_chromosome	+	55522	55851	361.3266441	320.2310981	334.0108292	316.1563207	420.5602357	350.0674204	-0.058820629	0.192086111	0.1416595
C7SA39	TY-2482_chromosome	-	55783	56988	92.76791947	83.35811062	93.15274507	34.11493628	35.50407104	32.98174225	1.416073945	8.746574932	7.8824139
B7LX15	TY-2482_chromosome	+	55855	56658	453.5709401	339.0154052	354.3082859	450.965516	480.4997174	510.3186338	-0.269641763	0.921618297	0.7364889
D3H584	TY-2482_chromosome	+	56807	57481	973.6584787	925.5474779	1030.099127	553.8228652	500.5017393	485.6310923	0.931915411	5.48387356	4.8262616
C6UZH6	TY-2482_chromosome	+	56852	57754	66.87435071	52.29750324	48.52646883	54.99276322	38.13142082	40.97755409	0.291585702	0.705910927	0.554556
C7SA40	TY-2482_chromosome	-	57346	58272	133.749861	151.1941447	137.2413858	87.74171508	81.19490657	11.78984138	1.022599657	3.290355222	2.817118
Q9Z4E6	TY-2482_chromosome	+	57571	57876	496.4996821	520.108853	505.0398144	216.6103241	230.259169	222.3734196	1.178398968	8.26086987	7.4184281
C6UZH7	TY-2482_chromosome	+	57754	58821	38.7875533	49.71220868	36.03844885	32.0053156	37.34837907	34.24638995	0.192028121	0.467523283	0.3576714
E9LLV1	TY-2482_chromosome	+	58239	59270	1912.826517	2063.133946	2112.844932	1438.412487	1382.383322	1209.343359	0.564781381	2.437242726	2.0609721
C7SA41	TY-2482_chromosome	+	58610	58891	18236.53084	14770.02476	11862.48199	4412.733247	14036.51052	3571.848219	1.013649374	1.483200083	1.2207509
B7L946	TY-2482_chromosome	+	58850	59638	53.01380943	58.73557266	54.07115789	56.80386856	64.79796674	24.58264772	0.069841187	0.245108052	0.1816993
Q3ZU22	TY-2482_chromosome	+	59266	59679	1060.367882	1099.805676	1091.360388	726.3278243	843.7432019	595.1409858	0.554957256	2.489571066	2.1067102
D8EU26	TY-2482_chromosome	+	59524	59817	28911.74535	25670.5484	21581.95634	12694.92086	32367.53686	10203.72727	0.437856533	0.495454254	0.3806727
C8TX14	TY-2482_chromosome	-	59657	60064	66.5087968	62.68456761	72.78473941	84.84471491	72.88341909	32.52490803	0.004633969	0.104255523	0.0768607
C1J8J5	TY-2482_chromosome	+	59687	60958	314.4879226	405.2178112	345.2019895	175.7918244	226.7467328	162.1862708	0.845445334	4.76414984	4.1590341
D8EDM2	TY-2482_chromosome	-	60067	60297	22.48531726	18.88988804	21.80177861	31.03812773	39.32927078	12.64239206	-0.43703625	0.594372617	0.4620069
E9LLN8	TY-2482_chromosome	-	60554	61165	411.8184961	491.2247172	478.7580181	299.5577467	355.3050658	51.52979705	0.793927124	2.047029868	1.7125837
A1YLB7	TY-2482_chromosome	-	60961	61398	87.76033952	77.25585603	63.62493544	47.20985813	58.36165105	38.55967284	0.625350185	2.192726791	1.8436495

B3AEC6	TY-2482_chromosome	-	61244	63478	153.9036626	176.9657541	164.364211	67.51604896	62.87662788	32.36119905	1.486598343	11.16483932	10.180355
Q5K5L6	TY-2482_chromosome	-	61445	62401	154.5826677	182.2836998	179.6793383	44.196443	62.87628906	57.8006003	1.663769824	13.89769766	12.793446
P46004	TY-2482_chromosome	+	62882	63637	3062.014644	4243.006271	3787.812035	1468.412788	1401.76143	226.6043014	1.60268296	3.896562226	3.3646454
E9TQB2	TY-2482_chromosome	+	63009	63588	43.71363985	33.98024169	28.6416408	26.17188009	34.71312143	20.1573397	0.367161623	0.727612107	0.5728732
C7SA45	TY-2482_chromosome	-	63509	64090	84.4825661	89.64691251	80.3980492	52.86739029	39.04406077	44.79542082	0.842877159	4.089325017	3.5415995
B7LX07	TY-2482_chromosome	+	63654	66179	7133.073563	11524.11361	10227.19628	5133.970206	4292.79428	2160.042582	1.119369736	2.755812684	2.3454207
C7SA46	TY-2482_chromosome	-	64122	65321	129.4389326	119.0893753	123.4207394	113.0735818	85.40511436	123.3325294	0.235049138	0.521197972	0.4010539
C8TNM7	TY-2482_chromosome	+	64373	65212	55.37275396	51.96114802	53.44109172	40.0503689	50.19560221	28.16365675	0.414228232	1.058808291	0.8533922
D9Z526	TY-2482_chromosome	-	65291	65914	78.73681945	71.93929579	59.03309168	61.22311229	71.84673189	98.05486096	-0.091479012	0.23180431	0.1719051
B7LFE3	TY-2482_chromosome	+	65686	66621	1142.525458	1302.679214	1243.227463	1836.981709	1480.529754	1933.689571	-0.52775017	1.833429194	1.5266519
Q68JA2	TY-2482_chromosome	-	65905	68946	285.7555189	263.2914773	267.9809184	150.1292168	168.3696054	174.8434907	0.763707877	3.537670441	3.0399922
B7LFE4	TY-2482_chromosome	+	66679	67413	1257.610273	1462.708007	1516.751125	2213.9675	1948.35959	2116.819682	-0.585418802	2.253334691	1.8961034
O87745	TY-2482_chromosome	+	66734	67234	14384.4294	16765.55071	17193.34848	11152.697	9816.05426	1680.383503	0.896107747	1.243646413	1.2346413
E9XTW5	TY-2482_chromosome	+	67374	67691	437.4762507	467.9364308	401.1741234	99.81444437	93.85147362	41.74445443	2.331082616	21.77040461	20.445513
B7LFE5	TY-2482_chromosome	+	67440	67991	938.3513667	1070.952058	1042.556208	1859.226653	1728.141492	1872.067599	-0.859081389	4.390176342	3.8210888
F2W481	TY-2482_chromosome	-	67666	67968	74.5349294	101.1223316	82.41694031	28.78656529	21.83398542	13.68495157	1.841337135	12.94861281	11.878099
D3H139	TY-2482_chromosome	+	68048	68584	535.574462	452.1874327	517.684286	944.1933783	992.8570033	1048.425071	-0.927806966	6.143018201	5.4408008
Q8XC14	TY-2482_chromosome	+	68195	68752	39.54924519	41.34443088	42.97588847	32.12767887	29.0606262	36.63933115	0.358880899	0.749236049	0.5925906
B7LFE7	TY-2482_chromosome	-	68654	69484	53.09990834	51.76432508	52.12089278	58.06166691	59.23664688	36.1117456	-0.020712409	0.027332126	0.0182471
B7L938	TY-2482_chromosome	+	68805	70340	302.1236093	298.9560579	297.7200689	154.6081962	168.3141113	211.3565598	0.799902925	3.608241951	3.101482
C7SA49	TY-2482_chromosome	-	69039	69836	88.91056129	101.9626322	86.30938705	50.19600547	50.12487255	30.82735672	0.973669149	5.191456913	4.553714
C7SA50	TY-2482_chromosome	-	69823	70008	24.45103447	30.59242696	31.86767728	18.24735188	26.5389407	13.58387444	0.53309219	1.1442861	0.927577
C7SA51	TY-2482_chromosome	-	70075	70476	63.02007089	104.0136972	104.7109043	27.66322927	30.09735014	20.11199183	1.716769061	10.41346608	9.4650836
E3Y4T4	TY-2482_chromosome	+	70481	70994	79.74502631	102.0373904	97.15236017	55.15297103	68.40064609	40.01606221	0.698402296	2.968673081	2.5315235
C7SA52	TY-2482_chromosome	-	70530	71054	78.98701308	99.71116537	99.19766465	34.74479443	20.82871576	22.61141168	1.739926656	12.09719407	11.068276
E9Z010	TY-2482_chromosome	-	70931	71380	112.1320827	113.4748809	114.8849746	48.27567206	49.2421238	25.68193562	1.393895366	9.285067005	8.3943595
C7SA53	TY-2482_chromosome	-	71057	71758	153.222394	145.3434325	175.2271756	54.32952849	53.63970371	66.80421867	1.506945496	11.15432501	10.171673
E9Z008	TY-2482_chromosome	-	71362	71859	55.14031076	72.95774597	58.6199728	24.41832826	14.51315201	8.45555015	1.784201254	10.54136814	9.5850133
C7SA54	TY-2482_chromosome	-	71761	73047	162.2776173	159.9084943	160.4010435	85.66289009	56.25702178	86.54809199	1.077647754	6.449439456	5.7291136
B7LFF2	TY-2482_chromosome	+	72246	72698	37.38625739	32.12605374	40.44038993	31.34878532	33.66214406	36.71086499	0.183666052	0.198371382	0.1462425
B7LWW9	TY-2482_chromosome	+	72295	73320	1213.580743	1303.444048	1378.724885	1187.972366	969.4537285	42.36887835	0.600846418	0.943648495	0.7551542
C7SA55	TY-2482_chromosome	-	73053	74033	72.38622113	79.77652627	82.64289012	60.57766456	65.4562722	0.481917906	1.427317204	1.1733179	
B7LWW8	TY-2482_chromosome	+	73327	73863	851.6002152	886.7498756	1032.929557	986.7712777	843.8677534	80.57952226	0.354670865	0.663935871	0.5195362
B7LFF5	TY-2482_chromosome	+	73618	74148	310.3953737	266.8684663	325.0318794	255.6652367	308.5145813	344.3514974	0.089096224	0.008059962	0.0052916
C7SA56	TY-2482_chromosome	-	74047	74736	77.33186616	53.43925339	63.95748198	34.82206979	26.26915235	41.71890367	1.008565471	3.608120431	3.101482
B7LFF6	TY-2482_chromosome	+	74153	75571	426.0086914	539.4299901	479.2922141	464.2140718	459.5447982	499.8171293	-0.01839544	0.033123291	0.0226989
B1LJZ9	TY-2482_chromosome	+	74681	75328	175.3623633	125.4731604	139.1349059	112.3800181	90.89374844	120.7787919	0.503039535	1.506836418	1.241066
C7SA57	TY-2482_chromosome	-	74736	75080	33.77376101	22.65703318	33.84133444	28.42312668	21.76644259	26.29254879	0.3183781	0.401588921	0.3048353
C7SA58	TY-2482_chromosome	-	75101	78862	355.83546	413.5476056	361.6688782	131.755152	116.3508699	183.5059597	1.398459952	9.604728345	8.6989658
B7LFF7	TY-2482_chromosome	-	75585	76739	87.10104632	72.29268461	58.27338348	116.2157071	107.3277883	124.828721	-0.680854233	2.908740805	2.4784674
B7LFG0	TY-2482_chromosome	+	77133	78665	1599.6697	1563.575275	1501.245065	4456.592922	3774.786706	4789.890868	-1.475971424	4.338386419	3.7710593
B7LFG1	TY-2482_chromosome	+	78661	81201	3120.947806	2666.839571	2674.430963	6981.431877	6813.481191	8597.141639	-1.351091593	3.614864056	3.1075008
E9LLQ3	TY-2482_chromosome	-	78955	79863	115.3575486	98.59403254	97.5283841	62.9880442	73.74938733	71.01024878	0.618805924	2.61277999	1.9933012
C7SA62	TY-2482_chromosome	-	79808	80953	130.3235223	106.7442591	113.4496015	95.1696644	83.63226662	110.1952712	0.331245009	0.774401991	0.6136426
Q68JB5	TY-2482_chromosome	-	80953	81768	80.92504851	63.36943996	75.29170704	64.39456479	50.84269749	73.33388359	0.289670066	0.504575052	0.3880548
Q0TJ23	TY-2482_chromosome	+	81213	81435	336.0899148	296.1275345	241.1510991	286.4902646	460.7423322	287.2538224	-0.258282985	0.537373369	0.4150909
B7LFG2	TY-2482_chromosome	+	81377	81601	265.3200951	313.1095665	277.8610654	169.1927119	187.4781787	194.5871342	0.614695131	2.75660451	2.3457226
B7LFG3	TY-2482_chromosome	-	81608	81979	380.4754844	444.6573976	407.9785118	219.2412795	225.6860799	231.5059836	0.83974759	4.690297424	4.0920271
Q68JB6	TY-2482_chromosome	-	81768	82223	64.64131054	49.7894884	46.54604895	31.30239064	29.03215443	44.24147358	0.687037965	1.81306589	1.5082129
B7LFG4	TY-2482_chromosome	-	82065	83288	180.6818579	242.8258632	207.2557873	92.6364099	83.66945628	94.64043037	1.154903213	8.39810947	7.5489964
Q68JB8	TY-2482_chromosome	-	83265	84464	469.5315921	492.0705639	509.7871386	110.0290363	92.79569595	84.49560846	2.317175895	26.4122535	24.988436
B7LFG5	TY-2482_chromosome	-	83463	84380	910.2389889	822.3319379	833.1123911	317.4501215	348.505319	434.9923146	1.285306883	8.182514769	7.3453372
Q68JB9	TY-2482_chromosome	-	84553	85374	192.2386447	180.7998079	185.4860358	42.00531963	46.46611649	37.07958012	2.147782902	23.55325346	22.172661
B7LFG6	TY-2482_chromosome	+	84605	85654	143.4863698	159.0614416	146.4923453	1004.789031	996.4996182	985.4495528	-2.763074197	34.0392333	35.459069
P10487	TY-2482_chromosome	-	85528	86679	87.99999428	116.7349302	97.62314832	22.63051464	33.77750527	26.4062385	1.820692591	12.95919848	11.885314
B7L646	TY-2482_chromosome	-	85702	86274	220.5670484	241.2465924	209.092712	417.0085695	442.3284329	384.3762007	-0.939062054	4.876728578	4.2623145
B7LFF2	TY-2482_chromosome	-	86281	86844	63.50469959	62.36718012	68.77521325	106.6865171	135.6665846	124.9586584	-0.871703916	5.044478622	4.4177517

B7LFZ3	TY-2482_chromosome	-	87269	88384	625.2175121	595.5091691	615.987911	1259.402142	1308.630504	1441.723358	-1.092639712	8.109381548	7.2767584
B5YV70	TY-2482_chromosome	-	88502	88756	1277.228465	1344.385828	1318.472342	447.4021437	770.254899	382.2671514	1.278882948	7.730717047	6.9317094
B7LFZ5	TY-2482_chromosome	-	89046	89420	242.1889767	269.7684217	248.8315017	192.3141329	378.9100373	224.0676555	-0.064984241	0.099849952	0.0731161
B7LFZ6	TY-2482_chromosome	-	89365	90408	482.4731478	440.9534216	436.2796692	963.8387528	977.3437625	1170.567786	-1.154527955	8.409605857	7.5591461
B7LFZ7	TY-2482_chromosome	-	90517	91074	358.9495314	358.1530772	355.8240624	494.9588157	489.5445559	602.1997708	-0.533905235	2.234438619	1.8800141
B7LFZ8	TY-2482_chromosome	-	91211	91855	1010.38163	1024.660182	899.6411035	891.6083095	749.7151196	1228.008835	0.059862178	0.056586533	0.0399032
B7LFZ9	TY-2482_chromosome	-	91922	93127	246.8486141	202.8152811	260.3778993	150.1682916	168.3812017	167.029217	0.629453054	2.170671146	1.822671
B7LG00	TY-2482_chromosome	+	93363	93944	577.2536938	585.022299	616.7471859	827.7373264	693.3907955	740.7649398	-0.357562404	1.102639282	0.8912265
B7LG02	TY-2482_chromosome	+	94607	95527	644.7261772	605.6199845	590.1119109	1100.290147	854.4217885	1043.18937	-0.713219426	3.391408147	2.9087471
B7LG03	TY-2482_chromosome	+	95640	97172	219.9289165	228.3647791	186.502534	283.048293	283.9382522	273.7345125	-0.452060452	1.369788759	1.1227502
B7LG04	TY-2482_chromosome	-	97218	97631	293.1527805	310.8938158	267.8125762	273.8979896	247.4728473	280.1262941	0.088633248	0.261786632	0.1949508
B7LG05	TY-2482_chromosome	-	97639	97929	300.5914018	316.406383	293.6870786	252.1571819	239.2995971	264.337311	0.255570115	0.76801873	0.6086839
B7LG06	TY-2482_chromosome	-	98008	98664	80.58808662	106.0598949	80.29941671	175.8075101	164.6268713	221.8881917	-1.121578941	6.35319134	5.6373402
B7LG07	TY-2482_chromosome	+	98819	99232	126.2872463	129.1336637	138.7694659	524.4502848	566.0348823	629.9380501	-2.084601069	22.18932696	20.856317
B7LG08	TY-2482_chromosome	+	99239	99640	152.8786192	107.7147794	129.3503205	727.5955687	653.3261982	823.2705507	-2.412738353	26.9736832	25.539602
B7LG09	TY-2482_chromosome	+	99655	100347	225.0279947	234.3387252	233.0628822	1386.108774	1340.420232	1754.567425	-2.660640458	36.45636721	34.805622
B7LG10	TY-2482_chromosome	+	100375	101577	379.9435827	358.5391491	368.3773679	2563.598013	2123.876437	3659.162778	-2.842122089	33.76889497	32.195909
B7LG11	TY-2482_chromosome	+	101600	102352	188.5583349	163.3762901	180.2544465	1286.325599	1023.615299	1789.696255	-2.85605793	34.85303073	33.231112
B7LG12	TY-2482_chromosome	+	102527	103306	165.5141279	149.3055453	125.0351868	1265.230106	1097.359893	1792.373073	-3.198591603	40.8144194	39.074152
B7LG13	TY-2482_chromosome	+	103362	104057	57.55850094	59.14300158	56.71259071	463.2542525	410.2595704	722.6075928	-3.134687783	33.48293048	31.917007
B7LG14	TY-2482_chromosome	+	104072	105166	75.05079407	46.55596717	69.47418433	538.2680968	519.5510829	690.2156318	-3.046349046	37.74141303	36.055195
B7LG15	TY-2482_chromosome	+	105169	106107	58.34103123	56.88484048	56.72822399	383.188822	432.2704444	475.9936879	-2.870174707	36.56430186	34.904956
B7LG16	TY-2482_chromosome	+	106176	107816	765.8583572	703.8837754	733.4881264	1552.458135	1384.095305	1741.575862	-1.051375038	6.646817242	5.9112336
B7LG17	TY-2482_chromosome	+	107831	108781	525.7524464	525.3471851	495.6982824	1151.080121	1171.207185	1293.075021	-1.216986275	9.689261252	8.7781036
B7LG18	TY-2482_chromosome	-	108984	112166	7454.610332	6453.458589	6844.595041	10704.94172	10713.94704	14576.42755	-0.71587085	1.350654483	1.1062822
C8TPF5	TY-2482_chromosome	+	112301	112618	1252.624143	1330.875568	1149.881738	520.0335287	978.6175178	606.8791959	0.817938026	3.598058645	3.0923186
B7LG19	TY-2482_chromosome	+	112739	113695	400.8651804	374.2293803	402.1239946	675.8403254	666.1646418	619.8200159	-0.729137258	3.666453608	3.1541656
B5YVV6	TY-2482_chromosome	-	113813	114433	526.4594779	513.0431138	538.1298203	495.312841	740.0521322	559.3344345	-0.152470913	0.409024807	0.3107806
sraB	TY-2482_chromosome	+	114388	114556	2584.663041	2628.832624	2041.632102	1042.247204	1835.883424	1092.446193	0.833042916	2.690707485	2.2878391
B7LG21	TY-2482_chromosome	+	114593	115111	14327.16822	13379.29666	13586.24627	10566.90466	15726.80791	11067.27899	0.166447648	0.14191211	0.1037428
B7LG23	TY-2482_chromosome	+	115420	116487	3325.592433	3320.541804	3451.755014	4833.992384	5737.062941	4635.169087	-0.586896533	0.964545253	0.7723636
B7LG24	TY-2482_chromosome	+	116558	117508	3627.534897	4192.966992	4241.484412	8037.189017	6281.953028	8246.031167	-0.915900048	1.728220912	1.4377198
B7LG25	TY-2482_chromosome	+	117527	118453	5737.235465	6218.122611	6663.282554	12298.19341	8909.255831	11653.56492	-0.827524002	1.434815979	1.1794483
B7LG26	TY-2482_chromosome	+	118469	119200	13731.10283	12998.11359	13501.13439	18865.30805	17254.5578	16462.48063	-0.395243204	0.469652887	0.3594332
Q1RD63	TY-2482_chromosome	-	119363	119735	22826.3686	21395.12258	21268.70147	18966.44652	29893.65322	17666.64141	-0.019494753	0.019064876	0.0127387
B7LG28	TY-2482_chromosome	+	119738	120976	9609.776071	8835.895752	9539.7724	18522.23112	17970.74864	19720.9471	-0.972673492	1.89301618	1.5782593
B7LG29	TY-2482_chromosome	+	121099	121905	212.1901152	239.3064861	245.7417407	310.1173789	288.4682446	279.0561981	-0.356581002	1.023018732	0.8220087
B7LG30	TY-2482_chromosome	+	121911	122930	323.9147774	316.5305763	279.0037516	302.576737	344.9636756	309.2745061	-0.073217898	0.108551121	0.0798367
B7LG31	TY-2482_chromosome	+	122923	123561	424.1478706	361.8869981	404.7488888	459.5376757	495.9905392	494.6353763	-0.234585878	0.785290071	0.6231806
B7LG32	TY-2482_chromosome	+	123561	124562	596.8690945	516.4496863	585.6968542	644.5342665	698.8780151	852.0904914	-0.285513359	1.134781884	0.9191685
B7LG33	TY-2482_chromosome	+	124576	125370	872.1443244	803.7927293	736.5527106	691.9562702	702.5095428	839.0394699	0.135882941	0.243661816	0.1806933
B7LG34	TY-2482_chromosome	+	125668	127098	20171.54891	17972.47443	19515.89963	10580.07368	8697.270363	10048.61529	0.992936925	1.783300702	1.4824547
B7LG35	TY-2482_chromosome	-	127164	129350	162.4571	158.9496657	123.6692118	113.0139421	62.64471041	66.20413498	0.748575667	3.732535627	3.2124392
B7LG36	TY-2482_chromosome	+	129684	130040	1021.600242	925.6927633	1016.817827	1129.419345	1198.544173	1205.066165	-0.214129896	0.669608708	0.5242793
B7LG37	TY-2482_chromosome	+	130046	130420	1010.678516	766.6606738	820.490127	1249.046498	1232.187401	1287.944812	-0.489038105	2.016811823	1.6860496
B7LG38	TY-2482_chromosome	+	130437	131075	1267.840461	1041.778485	1073.372799	1671.955539	1445.953272	1966.422032	-0.534145021	2.252408303	1.89561
B7LG39	TY-2482_chromosome	+	131059	131880	637.8595009	659.2622882	640.3755623	900.3031455	781.6190097	1056.029515	-0.483087275	1.930110106	1.6102159
B7LG40	TY-2482_chromosome	+	131894	132916	1194.836509	1369.848865	1367.44645	2320.20047	2082.115665	2519.173595	-0.819098457	3.574867691	3.0735828
B7LG41	TY-2482_chromosome	+	132942	133481	1724.335754	1964.725007	1898.864965	1450.064853	1410.562175	1427.472213	0.357479269	1.22666359	0.9969088
B7LG42	TY-2482_chromosome	+	133892	135193	2543.157013	2997.595951	2968.526422	11001.55646	9286.063552	11507.46996	-1.916554328	5.816505874	5.1348838
B7LG43	TY-2482_chromosome	+	135406	135942	89.65002333	111.2775755	80.85465926	234.539277	221.1217835	219.7951907	-1.3557066	8.810296794	7.9419396
D3H1S7	TY-2482_chromosome	-	136010	136717	312.5720702	344.0122154	284.2770955	185.9990001	250.3355196	243.2228656	0.463472911	1.618491643	1.3409828
B7LG45	TY-2482_chromosome	+	136880	137134	118.816209	116.6569559	133.5623297	19.83664069	28.2189415	35.0718974	2.24805848	18.84043223	17.58592
B7LG47	TY-2482_chromosome	-	137223	138182	206.519306	183.642902	190.069292	142.6172232	175.6250037	215.2397044	0.204829995	0.255542747	0.1901474
B7LG48	TY-2482_chromosome	-	138329	141772	1524.077885	1593.915003	1448.386208	2851.543211	2530.775011	2981.017556	-0.89093565	2.335024701	1.9709032
B7LG50	TY-2482_chromosome	+	143235	144431	662.6161248	626.475935	651.6439964	1108.38147	1193.999376	1193.223458	-0.822928963	5.037817261	4.4114931
B7LG51	TY-2482_chromosome	+	144427	145125	530.9086079	530.9714923	557.9664393	1153.803092	1079.255656	1270.667906	-1.08857834	8.03615461	7.2131331

B7LG52	TY-2482_chromosome	+	145128	146369	1149.36117	1195.072868	1179.162882	1570.001028	1598.913322	1888.914311	-0.498496135	1.956453683	1.6331673
B7LG53	TY-2482_chromosome	+	146401	147309	1331.09661	1316.737764	1411.681206	1836.809915	1783.665205	1933.857762	-0.429815594	1.616600581	1.3395984
B7LG54	TY-2482_chromosome	+	147328	148146	1087.189169	1103.315088	1310.904808	1878.838612	1904.73443	1901.080967	-0.664877842	3.206944961	2.7440519
D6HVG4	TY-2482_chromosome	-	148291	149534	145.8865972	172.4989634	105.6425953	86.46643972	63.61583158	68.57168759	0.806023905	4.431098457	3.8584685
B7LG57	TY-2482_chromosome	-	149595	150638	3251.782023	2688.038775	3011.329626	2643.454431	2439.819426	2441.87994	0.278751246	0.320814173	0.2411378
B7LG58	TY-2482_chromosome	-	150638	151429	543.6255031	553.8883507	558.564752	615.131661	664.3365999	697.1446443	-0.235438254	0.687750889	0.5396531
D3H1U1	TY-2482_chromosome	-	151429	152283	252.0401341	267.0095915	224.1950487	441.6089128	504.1653373	558.8522527	-1.018870192	5.927004817	5.2380061
B7LG60	TY-2482_chromosome	-	152270	153403	349.1785707	350.6442751	368.481532	842.6638072	778.9658645	813.0715644	-1.18584077	8.136731899	7.3026274
B7LG61	TY-2482_chromosome	-	153385	153633	91.96790634	74.25336648	106.6916067	109.6702788	111.9497765	104.0579879	-0.180221788	0.624770628	0.4875578
B7LGW6	TY-2482_chromosome	+	153611	154879	2411.658327	2503.961832	2672.77096	783.5109861	770.8105577	744.7402164	1.72330402	16.01441175	14.83794
B7LQG6	TY-2482_chromosome	-	155031	156149	1613.055801	1579.459389	1672.438808	2899.597252	2619.088058	2685.24575	-0.753939473	1.712410489	1.4231126
B7LQG7	TY-2482_chromosome	-	156228	157685	1654.858735	1769.363971	1750.297986	1165.674666	1125.703611	1187.960417	0.565425032	2.322692527	1.9597927
B7LQG8	TY-2482_chromosome	-	157688	158356	1535.945951	1717.24859	1565.314659	1310.656542	1383.275013	1433.931035	0.56427501	0.564279162	0.4367955
B7LQG9	TY-2482_chromosome	-	158527	159894	1445.054153	1285.596552	1164.328721	2914.40517	2365.961958	3817.203386	-1.18280781	3.668722643	3.1548842
D3H1U9	TY-2482_chromosome	-	159901	160545	486.4252731	372.4612227	395.9580881	878.4868768	802.5497661	1132.191297	-1.082314351	7.229978307	6.4621701
B7LGR1	TY-2482_chromosome	-	160578	161681	960.5257183	763.7485837	790.1060892	2209.132392	2114.903338	2450.780343	-1.381342074	10.08326752	10.10335
B7LGR2	TY-2482_chromosome	-	161738	162196	273.1193445	230.4233176	250.1848334	314.8793291	345.7919376	406.1687946	-0.42705781	1.766308223	1.4688792
B7LGR3	TY-2482_chromosome	-	162209	162859	312.6132798	319.0367806	290.3223112	245.398852	253.8711335	290.5049947	0.229747851	0.564387099	0.4367955
Q1RD17	TY-2482_chromosome	-	162950	164128	25378.53484	26523.37935	28150.57	33949.62971	28155.08211	32902.12998	-0.247590362	0.259620736	0.1932287
B7LGR5	TY-2482_chromosome	-	164387	164707	112.2396224	110.5763972	100.1530394	30.11737523	50.38301288	11.44126557	1.721635342	9.043040309	8.1647343
B7LGR7	TY-2482_chromosome	-	166031	166759	396.8981573	450.4372418	458.3292935	375.6304016	385.8781488	360.5990328	0.202280539	0.545408515	0.420977
B7LGR8	TY-2482_chromosome	-	166967	168175	112.1508325	127.3838425	99.37270317	272.7932425	290.4264667	180.92425	-1.248899185	6.37136277	5.6545212
D3H1W3	TY-2482_chromosome	+	171647	171898	102.022001	92.17748699	66.76558071	13.12477898	32.06057881	21.12982017	1.986007395	11.48787225	10.490339
B7LGS8	TY-2482_chromosome	+	172627	174945	29.40473777	27.62874927	17.996676	25.68568379	24.56832413	22.50722989	-0.027830603	0.023577365	0.10157036
B7LGS9	TY-2482_chromosome	-	175008	175334	752.2150454	765.4829285	837.3449939	456.8610333	448.7533134	277.0427926	0.940559198	4.987659564	4.3657404
B7LGT0	TY-2482_chromosome	-	175347	175688	714.0060246	762.7284186	838.0634495	350.2837784	365.0313169	242.6971688	1.23403429	8.359181231	7.5134166
B7LGT2	TY-2482_chromosome	-	176983	177246	989.3759939	940.9220521	1028.743263	2327.564897	2161.347233	2145.875218	-1.156033548	8.087462581	7.2574207
B7LGT3	TY-2482_chromosome	-	177253	178062	3364.453089	3361.912544	3618.866019	6913.593319	6017.212691	6117.735272	-0.887459042	1.732800413	1.4413695
B7LGT4	TY-2482_chromosome	-	178089	178781	1939.827767	2021.86615	1981.997955	1804.624814	1857.422716	1805.075913	0.112333675	0.193684387	0.1429626
B7LGT5	TY-2482_chromosome	+	179301	179666	176.2057918	223.0048577	211.3599735	235.977989	266.8088491	148.1305303	-0.186967025	0.167396625	0.1230536
B7LGT6	TY-2482_chromosome	-	179792	180190	830.2908334	742.2345691	699.6015163	538.4022749	548.010249	266.7678608	0.660458699	2.66337351	2.2626652
D3QQU1	TY-2482_chromosome	+	180219	180417	19.88919706	29.81342582	27.87519332	40.68423442	45.56111203	35.77378774	-0.715667791	1.762908021	1.4664217
B7LGT7	TY-2482_chromosome	+	180399	180722	345.2086171	416.7830516	431.3510646	471.5681923	475.0628896	435.6385107	-0.237162602	0.514730766	0.3959648
B7LGT8	TY-2482_chromosome	+	180797	181453	814.3476364	796.5190692	863.6963846	1292.601138	1154.810365	1194.648123	-0.553448549	2.232357051	1.8785777
D8BP59	TY-2482_chromosome	+	181470	181991	293.2036136	283.4750824	273.8744337	354.6979678	338.5210124	336.8735549	-0.287256989	0.777662653	0.6166276
B7LGU3	TY-2482_chromosome	+	183484	183900	86.99297731	74.99280082	66.34839373	65.75714921	61.86674088	60.61864492	0.262481347	0.682733409	0.5355383
B7LGU4	TY-2482_chromosome	+	183903	185168	136.6377348	166.4100389	153.8414714	122.0174581	132.8919845	126.3394325	0.230019409	0.708335301	0.5567106
B5YXK9	TY-2482_chromosome	-	185220	185753	260.9094343	287.7576345	260.6739009	205.1626977	238.4318007	266.7636977	0.199499647	0.444022695	0.3390451
B7LGU6	TY-2482_chromosome	-	185896	187434	811.7078759	612.35039	697.1362315	926.3680704	950.9509784	1156.054312	-0.426179928	1.994629114	1.6672529
B7LGU7	TY-2482_chromosome	+	187656	188372	980.2410832	1091.826029	1098.057897	1701.571528	1790.111368	1572.370964	-0.697868625	2.989779819	2.5508038
B7LGU8	TY-2482_chromosome	-	188430	189959	1437.302532	1401.845732	1517.984809	899.782089	798.9545855	915.5564781	0.756367644	3.513157357	3.017867
B7LGU9	TY-2482_chromosome	+	190289	191584	700.529408	757.5220088	831.4711488	317.3334705	358.5005547	482.1737688	1.061566037	5.093061271	4.4639104
B7LGV0	TY-2482_chromosome	+	191597	192664	803.2282983	793.2220371	737.9657952	235.558134	219.2224194	300.7858098	1.653901114	0.762882755	1.5365508
B7LGV1	TY-2482_chromosome	-	193056	194789	1919.098969	1705.923018	1731.017961	1175.998595	1225.818338	1341.746358	0.554238762	1.959794963	1.6361078
B7LGV2	TY-2482_chromosome	-	194887	195798	256.4047334	240.9029172	302.7400286	280.0894426	312.1352667	350.9854612	-0.152309446	0.583516263	0.4529588
A1YN12	TY-2482_chromosome	+	195784	196506	176.403334	178.1470112	192.2493372	284.1813982	315.8188632	301.2945759	-0.697594745	3.507916336	3.0135181
B7LGV4	TY-2482_chromosome	-	196514	197245	84.71833208	68.078083	71.82902451	136.4153042	148.3480554	149.9204401	-0.905261309	5.443704873	4.7886806
A7ZKW7	TY-2482_chromosome	-	197503	197769	46.92065564	56.13320745	54.87926649	16.27564817	23.80102395	12.24235203	1.543119641	7.716435044	6.918026
B7LGV7	TY-2482_chromosome	-	198400	200094	326.7222689	364.815694	320.0461263	697.2309122	643.2973388	892.7752382	-1.140204037	7.121841344	6.3595727
B7LGV8	TY-2482_chromosome	-	200417	201832	1733.669046	1479.583138	1556.743495	2876.80117	3161.505249	3524.263812	-0.942911623	2.369735381	2.0008696
B7LGV9	TY-2482_chromosome	-	201846	202475	1448.517221	1373.882358	1574.191175	1120.178291	1085.618242	1358.657573	0.36560997	0.839461334	0.6674738
B7LW0	TY-2482_chromosome	-	202489	203556	2618.865259	2699.460253	2706.309088	1074.958839	1046.513046	1185.188546	1.291355762	6.13939992	5.4376616
B7LW1	TY-2482_chromosome	+	203784	205700	312.6140145	279.4481366	327.6399479	189.7273571	171.0036551	216.7779794	0.732241772	3.055100196	2.6092723
B7LW2	TY-2482_chromosome	-	205806	208670	152.6005206	154.1857952	137.7786441	152.8526427	124.6946673	106.9805089	0.133562954	0.494264734	0.379731
B7LW3	TY-2482_chromosome	-	209442	210530	1554.812678	1445.672361	1505.97442	3406.24453	3664.783005	3745.474627	-1.231564771	3.43165343	2.9440342
B7LW4	TY-2482_chromosome	-	210650	211231	175.6679016	199.7301689	167.4779125	334.7758995	368.6029949	347.370205	-0.994112976	5.565656889	4.9045706
B7LW5	TY-2482_chromosome	+	211509	211784	799.1531761	975.4527761	968.0506048	702.2946618	1072.298143	646.509569	0.151058397	0.391509859	0.2966714

B7LGW7	TY-2482_chromosome	-	211845	213521	587.9056098	579.1314661	500.8098783	916.5038761	949.1335167	1150.788519	-0.843015844	4.767582828	4.1620836
B7LGW8	TY-2482_chromosome	-	213649	214593	5750.350299	4936.076667	4905.351814	7703.212228	7633.458346	9026.147564	-0.601607706	1.031224056	0.8291546
B7LGW9	TY-2482_chromosome	-	214747	215595	2757.359939	2468.634514	2690.486216	2374.435847	2832.143265	2597.054469	0.064699418	0.020684049	0.0138748
B7LGX0	TY-2482_chromosome	-	215598	216218	659.6206161	636.5400008	639.7139873	512.2463153	406.6403822	603.3748246	0.377080043	0.97466492	0.7809995
B7LGX1	TY-2482_chromosome	+	216432	217685	2117.157303	2027.598041	2075.092172	848.4298912	953.8146095	769.9317249	1.270446444	9.069848193	8.1872037
B7LGX2	TY-2482_chromosome	+	217730	218809	1209.210711	1215.990267	1242.58161	1354.831882	1181.149869	1481.114995	-0.114521884	0.279501957	0.2087641
B7LGX3	TY-2482_chromosome	+	218812	219642	517.6677947	456.6076847	456.0690509	480.5915503	409.3845023	605.9324685	-0.013064256	0.115234919	0.0844825
B7LGX4	TY-2482_chromosome	+	219642	220031	230.3240705	195.1155996	259.8234361	135.5096598	138.2265625	207.1330061	0.647354929	1.697250015	1.409157
B7LGX5	TY-2482_chromosome	+	220038	220844	756.7478452	765.2762486	795.6418337	646.7209147	576.8558921	804.6562322	0.23398957	0.458040989	0.3497792
Q8FHZ9	TY-2482_chromosome	-	220847	221806	3374.245017	3266.599098	3404.852456	3442.353848	3828.616225	3702.133175	-0.10337251	0.140815746	0.1032693
Q1RCM2	TY-2482_chromosome	+	221748	222008	234.2133421	194.5927085	221.8681303	200.2854511	222.1291276	175.3007271	0.147885489	0.265006911	0.1976158
C1NCG3	TY-2482_chromosome	+	222842	223078	47.81327931	46.84434598	50.91575006	19.74062717	52.29236746	15.20576271	0.743748362	1.630715187	1.3513998
rdIA	TY-2482_chromosome	+	223116	223178	42.97450675	33.83398763	27.28560756	16.02665587	37.69213781	7.355369402	0.717296699	1.414288276	1.1619935
C1NCG3	TY-2482_chromosome	+	223378	223614	51.17364755	50.01436999	27.66797285	33.88256955	54.84351436	25.59094051	0.061602612	0.224593178	0.1661116
rdIC	TY-2482_chromosome	+	223647	223714	49.88943042	36.36509836	25.09448121	23.9657914	40.24442581	21.47032846	0.355795262	0.621157703	0.4849079
B7LGX9	TY-2482_chromosome	-	224007	225104	435.4500027	346.8002127	396.7968081	552.6824288	606.0872528	658.9113891	-0.547417441	2.607883458	2.2128833
A1AAE4	TY-2482_chromosome	-	225371	225667	144.1882183	168.954642	149.7740876	193.7832729	210.2991854	160.8886898	-0.353159658	0.818338527	0.6509146
B7LHL5	TY-2482_chromosome	+	225741	226454	417.0716387	486.2556887	482.0717792	667.9434697	667.9918277	613.2523366	-0.524145992	1.807404052	1.5034038
B7LHG5	TY-2482_chromosome	-	226504	226854	670.4957897	833.7614278	836.0414799	556.2861808	835.5684508	718.294343	0.166967852	0.312502774	0.23431
B7LHG6	TY-2482_chromosome	+	227180	228430	313.2852044	331.8995211	312.8676976	246.1115524	231.0693817	298.2637083	0.317347676	0.855242499	0.6809081
B7LHG8	TY-2482_chromosome	-	229080	230873	2413.282554	2357.153587	2380.113984	392.4446716	453.2393572	444.6140644	2.495101559	29.96374397	28.462761
D3H2K9	TY-2482_chromosome	+	230899	231114	53.05544278	49.76881975	57.57923478	19.25439454	31.97213349	25.04052399	1.134622116	4.474236174	3.8965978
B7LHG9	TY-2482_chromosome	+	231212	232600	18141.20459	16140.88215	16740.84029	42.2799195	36.37961207	33.1229538	8.817690722	56.63502049	54.598924
B7LHH0	TY-2482_chromosome	+	233119	236859	53198.43423	45904.62788	48378.63409	421.6991913	254.5473309	543.7556848	6.985441218	34.79229889	33.178276
B7LHH1	TY-2482_chromosome	+	236859	238394	3074.229422	3409.818565	3256.919436	250.2976886	162.6696928	309.74578	3.764516857	49.18288327	47.29439
B7LHH2	TY-2482_chromosome	+	238394	239101	631.0261496	657.2505767	726.4695934	142.8849935	89.90663732	140.4816161	2.439128062	25.23274488	23.823819
B7LHH3	TY-2482_chromosome	+	239104	239778	429.2116368	402.9025606	470.9610026	124.6340819	70.77639017	115.5291362	2.084107768	18.67996701	17.427233
B7LHH4	TY-2482_chromosome	+	239961	240407	103.698669	127.9570131	123.558532	75.5331616	131.2651183	96.17347916	0.236763213	0.500641897	0.3849919
tyrT	TY-2482_chromosome	-	240143	240227	39.38645521	54.99121921	45.50299332	35.99823412	71.158126	59.08067329	-0.251778154	0.434538867	0.3313751
tyrT	TY-2482_chromosome	-	240262	240346	58.12388614	66.85378055	70.82624459	38.65811027	84.93554764	49.00053794	0.212697983	0.292922861	0.2189251
B7LHH5	TY-2482_chromosome	-	240509	241348	822.49761	842.7594901	927.8176973	1155.070228	1245.891096	1163.08678	-0.440747376	1.621472951	1.3434229
B5YYD8	TY-2482_chromosome	-	241401	241877	516.4666616	640.4288903	622.0579029	650.6016181	752.6697101	681.5664264	-0.250023649	0.584742178	0.453799
B7LHH7	TY-2482_chromosome	+	241930	242871	679.0129391	659.9357375	701.2311901	410.2277089	386.6738014	525.7462588	0.680025364	2.559068539	2.1685348
B7LHH8	TY-2482_chromosome	+	242966	243976	540.6264153	498.4997338	612.3363492	650.5989867	711.6705734	724.8167258	-0.272800846	1.008611785	0.8100137
B7LHH9	TY-2482_chromosome	+	244181	245086	1867.252858	1947.386657	2001.239122	4850.722419	5060.871693	3844.683667	-1.274703024	3.172657098	2.7116936
B7LHI0	TY-2482_chromosome	-	245236	245646	17011.15158	16343.73914	15900.31466	14582.21716	22235.56469	12863.38162	-0.023610415	0.010416722	0.0067856
B7LHI1	TY-2482_chromosome	+	246252	246866	108.9002456	152.2463589	120.6762569	243.2813568	346.9169656	239.8044129	-1.201419537	6.135711447	5.4349297
P30192	TY-2482_chromosome	-	247154	248051	36.58033811	48.99201565	29.93285072	62.88521963	78.37070989	58.17767284	-0.911531912	2.784269668	2.3689536
B7LHI5	TY-2482_chromosome	-	248178	250850	30722.14958	25499.42393	28421.78375	55947.50757	37182.69446	54934.52239	-0.773901652	1.227041435	0.9971251
B7LHI6	TY-2482_chromosome	+	251327	251971	314.8160462	321.8446272	309.5707912	101.5509036	110.1051274	120.8441565	1.524769208	12.58315748	11.531267
D6J9L4	TY-2482_chromosome	-	252135	252446	558.0132683	548.1335065	462.4717665	245.2408407	467.3861356	126.2390879	0.818945987	2.544571817	2.1556721
B7LHI8	TY-2482_chromosome	+	252712	254340	2737.792404	2758.881393	2811.296461	3873.829991	3018.559652	3124.785887	-0.304759913	0.345060013	0.2600929
B7LHI9	TY-2482_chromosome	+	254429	255346	488.9711221	532.7846312	514.308732	621.928268	524.9842517	695.6237417	-0.262281881	0.679067469	0.5328062
B7LHI0	TY-2482_chromosome	+	255364	256269	560.8372882	561.7680308	576.4080268	862.0317414	824.4114258	1112.499958	-0.673605769	3.385923855	2.9044032
B7LHI1	TY-2482_chromosome	+	256284	257294	956.4671906	940.5148927	969.2385506	1660.605671	1530.586304	2205.6735	-0.858164605	4.70011691	4.0999559
B7LHI2	TY-2482_chromosome	+	257294	258295	1059.036405	943.6926828	1011.470138	1901.039913	1743.552109	2370.251998	-0.934960347	5.644362262	4.9772546
B7LHI3	TY-2482_chromosome	-	258354	258680	429.365688	399.5673097	386.7397962	326.7206214	430.5838521	339.639351	0.159266711	0.321730612	0.2419399
B7LHI4	TY-2482_chromosome	-	258718	260175	1002.063242	997.1612369	1034.627176	932.5978351	959.2295738	835.6575368	0.145098757	0.376817238	0.286234
B7LHI5	TY-2482_chromosome	+	260207	260488	439.9168675	524.0094914	243.8930444	52.58351955	263.1026634	25.09681981	1.646036715	3.93833943	3.4031719
B7LHI6	TY-2482_chromosome	-	260549	261799	443.4551482	435.6298879	446.3194245	181.7754778	247.7591495	137.4986768	1.20031033	7.225937895	6.4592433
D3H2N2	TY-2482_chromosome	-	262102	262401	725.3452345	749.4911224	740.102322	259.1744418	533.6015452	350.1884218	0.994128653	4.20616181	3.6502778
B7LHI8	TY-2482_chromosome	+	262619	263335	910.0688494	973.0554879	886.5528017	108.8084843	110.9846226	131.2895022	2.981596985	40.82219007	39.076658
B7LHI9	TY-2482_chromosome	-	263381	263776	134.2340028	96.9283996	103.4317878	90.19795005	137.6104699	93.7229092	0.112821907	0.099471524	0.0731715
B7LHK0	TY-2482_chromosome	-	263884	264420	442.0200223	420.2366258	422.4830825	528.1740229	635.2138733	729.7620151	-0.50021808	2.720296148	1.822671
B7LHK1	TY-2482_chromosome	-	264453	265193	428.2886287	496.6368064	497.9346834	609.7211975	706.2059884	766.7438394	-0.52822438	2.071972811	1.7344327
B7LHK2	TY-2482_chromosome	+	265550	266185	475.7432024	478.3066582	387.8199531	54.87450087	70.15102342	60.58714718	2.828184397	36.03761467	34.391106
B7LHK3	TY-2482_chromosome	-	266237	267364	79.77927222	101.8049255	91.77629966	75.71417792	83.85082926	48.01579596	0.296497385	0.998593244	0.8010462

E8IY14	TY-2482_chromosome	-	267268	267590	34.49306121	31.24797979	30.23344839	15.45113942	28.42656843	12.30592639	0.75980513	1.880634678	1.5678376
B7LHK5	TY-2482_chromosome	-	267658	270126	45.5767851	44.29609635	48.27047359	51.68780846	43.69201287	30.77807408	0.080821682	0.178795177	0.1320215
E11YN5	TY-2482_chromosome	+	270824	271157	178.1553921	186.3981932	126.1537115	101.14125	139.5117431	57.48702231	0.584573021	2.293144879	1.9328705
B7LHK9	TY-2482_chromosome	+	271090	271353	379.2802281	363.0244463	322.5726348	264.173828	317.8203254	157.4417417	0.44775213	1.574682708	1.3025489
B7LHL0	TY-2482_chromosome	-	271348	271695	137.7279538	135.9505691	111.8833284	98.67519453	116.6659620	58.67344775	0.399411617	1.436325687	1.1806152
C8TR54	TY-2482_chromosome	-	272147	272563	506.1659193	560.918312	527.4790184	291.7546766	293.2570732	89.47064121	1.087264235	4.599483656	4.0101759
D3GYH7	TY-2482_chromosome	+	273327	274301	25.84913121	37.6279934	36.50235518	34.27943463	23.52813036	37.84186147	0.034417527	0.059466679	0.0422887
D3H4E4	TY-2482_chromosome	+	274924	275607	750.0658974	752.2050118	743.3761804	908.7135389	1092.159619	889.5869087	-0.367515943	1.225614424	0.9960211
E11YP7	TY-2482_chromosome	+	275791	276000	20627.93548	16244.6024	17418.83739	7524.545008	19505.82842	5259.779052	0.770013284	0.957898481	0.7669002
E7IAU7	TY-2482_chromosome	-	276048	276518	1323.921307	1190.059083	1030.2322	1144.345129	3460.855545	644.8029576	-0.608262231	0.943248489	0.755076
C8UNL5	TY-2482_chromosome	+	278818	279117	473.208311	527.7220732	530.2540422	314.7320998	531.7856428	287.4310843	0.41782688	1.190365479	0.9660675
B7LER9	TY-2482_chromosome	+	279271	280317	94.90865384	81.69670675	113.3017887	137.2422757	91.79865842	100.2192215	-0.164934812	0.37186989	0.281664
ileY	TY-2482_chromosome	+	280370	280445	43.3940894	39.38299088	43.61350888	7.595178187	10.94259352	11.69650993	2.127683864	10.45311782	9.50049
B7L8R4	TY-2482_chromosome	+	280730	281080	62.47775517	88.58528509	79.97485271	59.60897222	56.35243495	73.34154922	0.260959992	0.642894988	0.5023264
B7MV04	TY-2482_chromosome	+	281211	281522	2677.769523	2926.440894	918.2188879	219.6823816	630.4441254	174.8203289	2.458744048	11.02805313	10.054449
B7UQ15	TY-2482_chromosome	-	281534	281866	247.6462859	207.5255925	241.7248394	94.16172576	59.159889125	16.97361157	1.894071945	9.913441134	8.9864893
B7LES0	TY-2482_chromosome	+	282127	283977	319.8170544	370.7137894	393.7305652	420.9234535	379.4087137	466.7866951	-0.212959565	0.553559149	0.4281126
B7LES2	TY-2482_chromosome	+	284351	285154	39.23437153	58.1524411	58.37974799	34.97075809	33.69269501	26.61767651	0.636717941	2.103984142	1.7633278
D8EE44	TY-2482_chromosome	+	287803	288204	469.2768477	609.4921336	610.9391131	681.8069121	828.3614344	432.3786524	-0.284785492	0.404986885	0.3071004
A1AAK5	TY-2482_chromosome	+	288353	289153	32.1351483	29.19352257	34.44660953	9.917193753	26.6300604	13.41769676	1.004924415	2.446983581	2.0695799
B7L465	TY-2482_chromosome	+	289086	291053	40.44573664	45.0044227	31.28939892	38.0962469	32.68703245	41.90703382	-0.008651586	0.035543044	0.0241669
B7L467	TY-2482_chromosome	+	291243	292832	70.39578184	55.74202873	70.10849765	66.85572531	50.7929235	92.68970924	0.010407364	0.140280941	0.1032424
C8U3B6	TY-2482_chromosome	+	292825	294327	51.64712611	49.17267327	48.09979306	62.33876309	38.90820275	88.57384637	-0.293460041	0.687079492	0.539296
D3H3D9	TY-2482_chromosome	+	294367	294711	31.68565192	29.96712382	17.91691013	36.12653958	29.02051169	41.80103827	-0.47434	0.82215242	0.6540284
B7L470	TY-2482_chromosome	+	294772	295797	72.25797621	94.20245432	88.56186123	132.792588	106.3673755	136.6291216	-0.596258723	2.094952278	1.7557529
D3H3E3	TY-2482_chromosome	+	296581	297153	26.78682271	32.70489026	29.01024095	37.82120774	32.62901388	58.48132031	-0.51691966	1.196052989	0.9709568
A1AAL5	TY-2482_chromosome	-	297652	298983	72.71181281	60.20664071	63.26827312	104.5095499	79.03218036	116.7175703	-0.570875724	2.193843189	1.8441277
B7LEU0	TY-2482_chromosome	+	299174	301744	94.8868346	109.6203061	92.24583859	59.30484499	41.60989842	118.2465576	0.504477847	0.911101212	0.7278623
Q1RCC4	TY-2482_chromosome	-	301980	302777	38.88903451	44.99355041	32.68354971	36.51343977	35.41000474	52.12397598	-0.107992727	0.108897097	0.0798776
B7LEU3	TY-2482_chromosome	+	302734	303516	31.12649934	19.21069793	17.40107208	30.01768023	27.21010667	41.63185831	-0.463057153	1.106510867	0.8941681
B7ML65	TY-2482_chromosome	+	304120	304467	414.1444677	493.187647	423.7180518	216.2369758	377.110314	183.6023106	0.714079513	2.848671966	2.426317
B7LBD5	TY-2482_chromosome	+	304537	308013	154.5478331	204.1606454	169.562956	133.1236966	113.6148121	179.5915147	0.287952755	0.795732477	0.6320699
E6AYR0	TY-2482_chromosome	+	308835	311666	216.7674002	243.8539413	219.083174	169.0102019	146.4746395	147.4852067	0.497498201	2.178512433	1.8300724
B2U0E5	TY-2482_chromosome	+	311669	312250	130.6690762	168.1260706	135.8276792	119.1337043	111.9589417	89.85630437	0.32649182	1.390771597	1.1408518
D3H3F8	TY-2482_chromosome	-	312631	312976	633.1769631	786.8094577	703.7673658	358.166998	442.5560376	177.3870523	0.991142745	4.85232147	4.202507
B7L492	TY-2482_chromosome	-	315777	316580	224.4767339	213.6903806	191.2008492	573.2652707	526.8449333	636.5132758	-1.462346295	11.42608218	10.430437
B7L493	TY-2482_chromosome	-	316583	317773	358.3694025	295.1398421	338.0722594	905.7849128	689.6701527	960.0751808	-1.31358448	9.460862459	8.5626926
B7L494	TY-2482_chromosome	-	317788	319143	275.9477804	265.8112847	279.3075256	452.7027338	369.3882903	430.1518621	-0.606106447	2.57496957	2.1837337
B7L495	TY-2482_chromosome	-	319150	320778	92.68884855	97.57745522	91.68756524	109.1227642	88.16885217	114.246411	-0.155751283	0.315030053	0.2363814
B7L496	TY-2482_chromosome	-	320781	322340	45.67714307	41.72121439	42.85434474	54.11100708	31.66062277	58.77448525	-0.12817144	0.204504407	0.1511099
B7L498	TY-2482_chromosome	+	322614	323492	611.7573541	567.5000521	616.7173754	696.6186444	729.8521169	768.209409	-0.249605958	0.845123635	0.6726334
B5YZP6	TY-2482_chromosome	+	323456	324109	681.0728814	749.6478965	810.3296149	1439.596293	1305.864342	1457.617003	-0.901214275	4.925260508	4.3092772
B7L4A0	TY-2482_chromosome	+	324186	325082	990.7784957	1043.198076	1063.698772	1817.094521	1863.788128	1839.257179	-0.833243566	4.380068774	3.8113338
B7L4A1	TY-2482_chromosome	-	325128	325715	346.8654596	398.2427868	355.0915706	628.57164	565.9956209	620.9267612	-0.764093041	3.486122535	2.993207
B7L4A2	TY-2482_chromosome	-	325715	326470	406.6314397	480.6852577	442.9891953	830.8846654	714.3108659	823.4847963	-0.870757535	4.304753658	3.7419705
B7L4A4	TY-2482_chromosome	+	326690	327736	1167.049442	1426.508742	1498.99995	1336.021713	1141.144233	1199.924322	0.123900452	0.335701193	0.2523512
B7L4A5	TY-2482_chromosome	-	327778	328076	919.6021847	1157.472444	999.4951884	512.3035101	849.3285616	566.0529396	0.636718254	2.3125582	1.096638
B7L4A6	TY-2482_chromosome	+	328071	328280	94.0163542	112.615989	108.3409225	119.3743914	131.072993	125.0123143	-0.27207036	0.710898016	0.5590034
B7L4A7	TY-2482_chromosome	+	328406	331048	1990.681423	2022.215475	2084.408669	6124.109098	5362.86824	5907.08522	-1.515614442	4.318795447	3.752693
B7L4A8	TY-2482_chromosome	+	331261	332232	1327.368945	1265.622082	1432.881537	998.8208222	1102.137122	926.438189	0.43022184	1.354872053	1.1096638
B7L4B0	TY-2482_chromosome	+	332675	332860	527.1111017	576.5160261	551.9296709	145.2989843	218.5837818	164.6388671	1.649528454	13.27105639	12.188052
B7L4B2	TY-2482_chromosome	+	333236	335908	2784.165584	2884.664924	2752.43358	1396.107961	1195.67841	1687.447429	0.993825103	3.145102835	2.6866077
B7L4B3	TY-2482_chromosome	-	335978	336565	1507.60385	1558.16284	1496.0167	802.8917822	982.9396951	855.2526781	0.788435382	3.947449539	3.4109748
E6BMY3	TY-2482_chromosome	+	336735	336735	655.7429336	680.2375023	718.4507013	572.1347297	515.9535137	542.0665106	0.330550727	1.014189773	0.8145381
B7L4B5	TY-2482_chromosome	+	337648	337953	688.8916845	636.5047773	605.2362451	613.9138775	739.9943968	550.30158	0.006733505	0.033099367	0.0226989
B7L4B6	TY-2482_chromosome	+	337963	339129	749.9877253	800.794384	779.7204647	1107.465393	993.748421	960.5832461	-0.429852326	1.401436711	1.1501614
B5YZR3	TY-2482_chromosome	+	339265	340059	318.0241245	286.1697794	262.4922653	493.7376154	567.0413945	468.597536	-0.828226064	4.061600539	3.5165322

B7L4B8	TY-2482_chromosome	+	340062	340385	91.83967588	91.09586092	111.2321434	152.2899457	156.5298078	155.2600479	-0.617080944	3.022043702	2.5793882
B7L4B9	TY-2482_chromosome	-	340517	340732	288.5701773	318.702826	291.7242023	267.6724446	353.2496113	258.1889724	0.002341007	0.051265266	0.0361612
B7L4C0	TY-2482_chromosome	-	341004	341750	262.5188523	242.9227588	263.4813045	303.2441071	325.8084177	326.2344871	-0.27780334	0.913150195	0.7294726
B7L4C1	TY-2482_chromosome	-	341843	342055	143.5139094	158.8916412	140.4795597	80.57266375	100.2028877	79.15697229	0.733740898	3.831591494	3.3036434
B7L4C2	TY-2482_chromosome	-	342163	344145	456.8639848	451.3289001	491.339452	382.8638724	397.7202487	359.3311804	0.304475327	0.367482595	0.6659821
B7L4C3	TY-2482_chromosome	-	344384	346315	1873.402377	1826.203469	1707.185233	2783.684156	2558.050451	3449.069661	-0.676018422	1.343578204	1.1003736
B7L4C4	TY-2482_chromosome	-	346386	347510	258.1375207	232.3728124	230.2775019	91.20153741	72.65646475	116.5215957	1.408898025	9.799389621	8.8804067
B7L4C5	TY-2482_chromosome	-	347658	348443	7872.568865	7061.347516	7767.053031	7746.363533	9777.677114	8817.265536	-0.162546765	0.237896212	0.1761361
B7L5A7	TY-2482_chromosome	-	348816	349166	41.31159129	29.92311063	36.96852274	31.49461461	29.07561654	34.08997413	0.263956081	0.346677653	0.2613973
B7L554	TY-2482_chromosome	-	349237	350040	470.4201543	443.624276	464.1454804	244.1120949	217.3797346	316.5004497	0.881401734	4.041434826	3.4990288
B7L555	TY-2482_chromosome	-	350045	351034	770.997422	785.5261977	760.5181467	535.8847495	454.9116487	603.5238477	0.548821947	2.097083953	1.7576768
B7L556	TY-2482_chromosome	-	351037	351924	455.4948118	423.0297482	437.036429	320.7319958	343.026528	449.3917809	0.310091458	0.598008856	0.4648732
B7L557	TY-2482_chromosome	-	351914	352876	377.0540007	365.334877	308.6326326	304.9353474	343.9629311	425.774432	-0.005334003	0.052846992	0.0373438
B7L558	TY-2482_chromosome	-	352876	354516	638.8091931	559.7767855	573.63129	613.8953361	601.4919749	702.2956614	-0.073067637	0.235599038	0.1747156
B7L559	TY-2482_chromosome	-	354831	355073	64.29086282	60.04947456	68.11528568	52.71355875	60.00460172	84.88031356	0.06164747	0.034263077	0.023375
B7L560	TY-2482_chromosome	-	355210	356592	77.62788092	64.53946856	56.71337297	48.19293861	67.44059633	57.90808039	0.127646887	0.022465209	0.0152692
B7L561	TY-2482_chromosome	-	356898	358313	48.0078284	35.24315605	45.63389895	43.1180942	56.53047641	42.33154401	-0.070268457	0.196286132	0.1449314
D3H3K5	TY-2482_chromosome	+	358513	359286	81.28581968	97.34241571	97.17897803	64.40560637	68.30486942	54.23837892	0.519405148	1.981185009	1.6554881
B7L563	TY-2482_chromosome	+	359316	359870	113.506452	130.7457041	124.8005751	165.5865437	151.027306	159.2072049	-0.397494639	1.217648918	0.9890232
B7L564	TY-2482_chromosome	+	360148	361632	33.406643	34.61548948	48.69225216	38.50761022	24.45345926	31.60377571	0.32627492	0.538342721	0.4156388
B7L565	TY-2482_chromosome	+	361637	362914	33.62678451	37.7961562	30.83232944	39.55403847	21.73038192	21.43999384	0.173409151	0.457336382	0.3493187
B7L566	TY-2482_chromosome	+	362955	364217	112.3819536	86.6316042	100.9994956	64.50848989	72.01186996	42.69541657	0.745966996	2.94679781	2.5122441
B7L567	TY-2482_chromosome	+	364343	365317	430.7333748	417.8095341	443.735185	250.0110494	294.0167269	255.3623769	0.7124681	3.255884515	2.7865903
B7L568	TY-2482_chromosome	+	365484	366149	442.595036	486.3766527	468.7574464	468.145844	248.4615796	162.6183877	0.848707592	4.553768571	3.9681413
Q8FHS4	TY-2482_chromosome	-	366228	366482	75.32754429	84.99281331	91.30991232	61.06934306	35.34610506	44.85839235	0.78192692	3.268604235	2.7971926
B7L570	TY-2482_chromosome	+	366430	366786	101.5291921	106.1986153	123.74779932	77.25449176	62.76062386	55.59528566	0.735979295	3.469364362	2.9777617
B7L571	TY-2482_chromosome	+	366798	367016	34.00262552	59.02879129	44.8589197	38.63907968	44.64780236	37.00823221	0.082630995	0.29323782	0.2191272
B7L572	TY-2482_chromosome	+	367094	367405	613.0545131	684.8071996	684.07927	743.4269036	126.818269	820.0149904	-0.516832766	1.758337941	1.4626043
C8TR14	TY-2482_chromosome	+	374236	375288	19.11560399	33.68930694	25.04953414	41.61359891	34.53972254	34.35967692	-0.639942044	1.126682239	0.9115376
B7L581	TY-2482_chromosome	+	375288	377552	36.60407639	34.25587617	39.73664978	75.58721062	48.12625531	49.01358548	-0.678882324	1.862965553	1.5528974
B7L585	TY-2482_chromosome	-	380371	381366	95.60856151	102.9198216	103.7070672	126.7647068	124.6696386	122.4215846	-0.318282797	0.927266693	0.741408
B7L586	TY-2482_chromosome	+	381521	382915	267.78733	284.7065352	222.0947894	924.3903592	680.5883864	837.9946399	-1.730421131	13.53677843	12.449142
B7L587	TY-2482_chromosome	+	382915	383973	209.2732413	262.9597853	191.0828997	425.7402284	317.4550976	448.304583	-0.929430489	3.914763701	3.3821986
B7L588	TY-2482_chromosome	+	384124	385662	3113.919621	3168.531166	3326.349329	1635.343636	1528.858961	1544.601675	1.026708919	2.494693422	2.111544
B7L589	TY-2482_chromosome	-	385712	386215	8353.302932	8292.009706	8845.260328	8338.658454	11424.01009	9425.176746	-0.160581916	0.209586077	0.1551142
B7L590	TY-2482_chromosome	+	386334	387296	357.3646305	383.520853	375.0097325	367.2601791	304.7726755	365.6167672	0.089739248	0.214850305	0.1588675
B7L591	TY-2482_chromosome	-	387277	388062	343.3698593	297.3584366	327.4865778	330.2517763	344.920897	334.2101532	-0.024626299	0.110619824	0.0810891
B7L593	TY-2482_chromosome	-	388341	389270	70.99010637	74.52811132	71.92314771	80.89315499	53.6114807	47.82782098	0.164172482	0.512195321	0.3943041
B7L594	TY-2482_chromosome	+	389396	390292	389.6511245	388.8162129	364.962407	188.3153234	226.7019282	179.1868028	0.927708777	5.285200562	4.6403755
B7L595	TY-2482_chromosome	+	390632	392242	741.1725827	683.2772793	714.3507098	1528.522047	1232.125619	1348.573822	-0.947433554	5.33212184	4.6847693
B7L596	TY-2482_chromosome	-	392299	393327	190.4399136	248.1123228	211.8529101	131.234436	158.4633148	116.1358582	0.604161016	2.92516041	2.492991
B7L597	TY-2482_chromosome	+	393571	393825	852.4922616	944.1555166	790.0338521	168.6317162	396.3921782	149.5672105	1.807637106	10.20222938	9.2663394
B7L598	TY-2482_chromosome	-	393881	393881	4126.323498	4816.323884	4922.217141	3700.272587	2880.197033	3496.817505	0.435265168	0.674780082	0.5287852
B7L599	TY-2482_chromosome	-	394983	395732	1961.949214	1475.062791	1577.107437	3201.227472	3842.297516	3581.099286	-1.019984933	2.61043621	2.2144899
B7L5A0	TY-2482_chromosome	-	395930	396442	409.1984623	373.9035646	362.9594004	251.2945713	324.1202685	237.1513715	0.49613192	1.761570656	1.4654608
B7L5A1	TY-2482_chromosome	-	396456	397979	200.9082808	282.9423387	203.6936843	69.49860055	79.23127635	67.26609221	1.558346183	13.58981509	12.501012
B7L5A2	TY-2482_chromosome	-	397912	398103	45.21316525	72.50916816	61.47333646	14.52846129	13.64765262	11.99110366	2.047799212	12.02705679	11.002188
B7L5A3	TY-2482_chromosome	-	398019	399461	566.4724062	816.6889038	684.6196396	105.6975465	88.15732993	124.5880859	2.642396653	29.50578523	28.013757
B7L5A4	TY-2482_chromosome	-	399464	400771	1252.33584	1542.042427	1517.357331	132.8277519	118.2689902	119.8226429	3.495022559	57.01715475	50.970593
B7L5A5	TY-2482_chromosome	+	401852	401852	103.8400299	122.3595644	102.1490517	120.2725306	102.7566143	122.2298579	-0.123968698	0.14751782	0.1474743
B7L5A6	TY-2482_chromosome	+	402185	402745	177.1305014	219.3363498	161.3875435	181.9095221	200.2848771	158.1990445	-0.057635068	0.061517412	0.0433654
B7L5A8	TY-2482_chromosome	-	402772	404001	449.3238005	521.659379	450.1131136	283.230278	366.8092168	362.9366628	0.481201415	1.691792322	1.404622
B7L5A9	TY-2482_chromosome	+	404256	405236	535.2937418	609.7350875	573.7215262	180.9316383	191.0611949	237.709728	1.511125957	11.72213611	10.711129
C6UTJ2	TY-2482_chromosome	-	405472	405472	22.25816785	29.76364543	25.04389593	32.21087814	30.00368148	31.585271	-0.343338113	0.481902796	0.368853
B7L5B1	TY-2482_chromosome	+	405717	407087	285.7481286	268.2560713	265.9706437	553.5385065	482.2123835	656.0700526	-1.012404754	6.041416102	5.3468014
B7L5B2	TY-2482_chromosome	-	407222	408154	290.1293019	281.3463969	303.1305377	568.8686012	554.2379945	488.3583645	-0.887430262	4.751305612	4.1469558
D3H4I5	TY-2482_chromosome	-	408333	408836	807.5298089	832.448727	919.9087	323.6583702	317.5663789	357.6769453	1.389130865	10.26162494	9.323265

B7L5B5	TY-2482_chromosome	-	410408	413929	3757.081979	3712.288464	4010.381149	6074.717409	4720.26859	7234.014537	-0.607223851	1.068640655	0.8620012
D3H4I8	TY-2482_chromosome	-	414003	414440	309.5600292	301.960197	327.5788439	265.1529291	314.968984	255.4669833	0.183251024	0.382630702	0.2904291
B7L5B7	TY-2482_chromosome	-	414469	414888	405.2595884	419.8306498	419.2522162	758.3211621	916.5234941	739.6173769	-0.961645399	5.476602238	4.8194227
B7L5B8	TY-2482_chromosome	-	415002	415988	744.36062	1110.724739	1027.504567	4455.127244	4801.4653591	4438.986523	-2.308978003	8.70716045	7.8436948
B7L5B9	TY-2482_chromosome	+	416196	418832	894.3031311	983.3770646	924.9326233	539.2394199	539.6788512	486.9807704	0.801344662	4.586376975	3.9996488
B7L6A3	TY-2482_chromosome	+	419025	419348	242.8841808	289.7900857	252.0859997	81.25516072	71.00878569	49.25511605	1.84526585	17.90608163	16.674871
B7L6A4	TY-2482_chromosome	-	419526	420428	50.7670897	60.54550435	48.65194499	59.94415907	50.91121271	54.005108	-0.117662744	0.073251076	0.0527939
B7L6A5	TY-2482_chromosome	+	420664	422160	53.51587986	80.19165199	64.65021578	104.265208	102.7866714	122.1052429	-0.791083674	3.15227619	2.6929598
B7L6A6	TY-2482_chromosome	-	424494	424494	37.93804939	50.13247707	42.19063708	58.84464969	50.96942329	38.60719756	-0.303911209	0.343372304	0.2586366
B7L6A7	TY-2482_chromosome	-	424745	426787	41.70890626	48.57651734	48.27832777	68.45956717	49.00012855	73.36428478	-0.469630981	1.248432471	1.0164106
B7L6B2	TY-2482_chromosome	+	429575	430642	47.86683949	46.60764547	46.83551839	45.46418269	23.51856174	27.89896188	0.472723213	1.336180996	1.0939748
B7L6B3	TY-2482_chromosome	+	430642	431406	33.72330063	31.19278894	30.2512788	26.27112228	22.6873644	28.78737279	0.304471781	0.522266637	0.4022316
B7L6B4	TY-2482_chromosome	+	431409	432194	31.33877857	31.32860373	34.42648233	27.41606975	18.13216551	17.38336443	0.578543577	1.425015821	1.171358
B7L6B5	TY-2482_chromosome	+	432199	433623	47.56156882	56.86659408	67.06589131	50.22307292	26.17806156	54.77171536	0.40832466	0.799994841	0.6359159
B7L6B7	TY-2482_chromosome	+	434038	435240	72.94712728	92.41963564	101.3522903	77.78400342	62.73041359	65.9017743	0.337559594	1.006248806	0.807801
B7L6B8	TY-2482_chromosome	+	435270	436580	121.1604459	109.2623766	126.2318706	82.15813835	66.32487148	89.20007876	0.631655605	2.509078918	2.1241221
B7L6B9	TY-2482_chromosome	+	436684	437631	475.3815039	525.7528781	594.528413	322.3610589	313.0129197	353.7337815	0.71793648	3.048466268	2.6031693
B7L6C0	TY-2482_chromosome	+	437616	438203	457.5825816	459.0425735	505.2419127	310.7828024	266.5729314	299.9202681	0.707173382	3.219980986	2.7557043
B7L6C1	TY-2482_chromosome	+	438436	439293	240.5519051	302.5999638	272.6619499	667.8711139	587.7980139	741.7212639	-1.322515438	9.123954631	8.2398553
B7L6C2	TY-2482_chromosome	+	439360	441663	58.26698024	70.45820921	52.51241463	199.7469509	137.3262997	130.6630277	-1.509026324	8.589588032	7.7323317
B7L6C5	TY-2482_chromosome	+	443354	445108	47.95863074	44.06490978	42.10044364	55.1864486	60.12430132	46.35526707	-0.289309971	0.553594718	0.4281126
B7L6C6	TY-2482_chromosome	+	445125	446414	36.25415004	55.26636787	52.36289983	58.5603188	51.82860636	55.28211161	-0.263657035	0.411498031	0.3130151
B7L6C7	TY-2482_chromosome	-	446471	447073	216.7623863	258.5116926	207.0481298	444.9026746	546.0894563	518.2974092	-1.183879274	7.218182526	6.4520436
B7L6C8	TY-2482_chromosome	+	447331	451173	2622.669918	2573.505887	2601.299313	1971.997354	1674.347491	2524.048404	0.382525698	4.073391493	3.3620666
B7L6C9	TY-2482_chromosome	+	451448	452245	113.6332139	106.5407473	122.9661277	217.922071	225.6889406	230.1950971	-0.932115496	5.981346597	5.2895489
B7L6D0	TY-2482_chromosome	+	452445	453881	197.4232959	195.9037447	194.7232332	135.3584475	115.4911141	140.6073614	0.590691958	2.49760229	2.113568
B7L6D1	TY-2482_chromosome	-	453929	454927	309.6697419	284.0479062	298.4057387	598.4557598	540.537832	538.2122959	-0.909748484	5.019177505	4.3943694
B7L6D2	TY-2482_chromosome	+	455116	455643	521.7951048	594.551729	591.6572825	288.0902801	247.3850891	390.0462636	0.917948953	4.273132353	3.7138124
Q0THZ6	TY-2482_chromosome	+	456130	456357	508.1061954	430.5355973	377.2351125	196.2931777	433.6860862	164.0626508	0.717420413	2.066567288	1.7300609
B7L6D5	TY-2482_chromosome	+	456684	458321	136.6547369	154.3731916	160.5922062	391.7566355	290.179877	359.0982158	-1.227370446	7.991012587	7.170516
B7L6D6	TY-2482_chromosome	-	458365	459285	129.3259346	140.9426772	124.6230436	158.5021836	223.1031772	176.445979	-0.512572645	1.776843585	1.4777121
B7L6D7	TY-2482_chromosome	+	459502	460842	69.85155837	54.91085637	51.85198279	113.0590317	94.55691218	115.6265058	-0.852801496	4.172032105	3.6178559
D7XGD6	TY-2482_chromosome	-	460845	461039	22.38698844	17.17281625	27.39561191	28.21201002	26.35239297	30.17027991	-0.240644846	0.530018656	0.4088822
B7L6D8	TY-2482_chromosome	+	461100	462722	483.7204698	522.7038463	524.9412197	1060.559344	969.1261103	1178.535902	-1.05842746	7.318395862	6.545541
B7L6D9	TY-2482_chromosome	-	462649	462849	40.80453493	55.79995717	55.6694091	162.2249433	179.3613992	137.1896161	-1.703876499	12.8293647	11.677714
B7L6E0	TY-2482_chromosome	+	462865	463086	294.4611838	364.1082565	304.1995663	626.1323267	744.6620965	332.5685916	-0.958938864	2.994428385	2.5551908
B7L6E1	TY-2482_chromosome	+	463137	463685	270.5882484	283.5641793	302.5276174	736.4641262	592.4804133	349.5873856	-1.068516233	4.123977372	3.5735214
B7L6E2	TY-2482_chromosome	-	463686	464663	243.7151361	230.3948916	277.5713252	230.0999255	229.3945206	168.8995237	0.255517982	0.660986762	0.516985
B7L6E3	TY-2482_chromosome	+	464787	465776	184.0106229	192.3648171	160.1344306	414.818968	481.4697341	443.407178	-1.347170619	5.981545195	8.67772
B7L6E4	TY-2482_chromosome	+	465776	466366	216.8011496	216.8125402	233.1702166	1311.024738	1301.419832	1041.061983	-2.474071531	29.11531369	27.632059
B7L6E5	TY-2482_chromosome	+	466672	467337	569.7987171	584.7099226	582.3159828	660.6327548	740.8678649	583.1552863	-0.212681013	0.461823059	0.3529504
B3IA33	TY-2482_chromosome	-	467361	467844	85.77663853	100.167569	103.8261194	85.29802807	101.1177961	74.02806604	0.128066449	0.31118848	0.2332235
B7L6E8	TY-2482_chromosome	+	467867	469072	223.8535322	205.7219516	165.2498673	116.7595235	140.2470853	108.1688615	0.667111811	3.063690499	2.6165325
B7L6E9	TY-2482_chromosome	-	469118	470290	89.82027141	94.28358303	72.90645924	59.23457225	55.50552866	51.48311392	0.557332572	2.279497435	1.9203123
B7L6F0	TY-2482_chromosome	+	470382	470915	90.63143982	73.48968749	84.51811215	66.24488746	59.06683413	78.61233856	0.354927907	0.747966069	0.5914571
B7L6F1	TY-2482_chromosome	+	470991	472949	385.9659198	343.5733877	374.3719903	358.5801271	314.7887663	389.1848892	0.095308725	0.104275826	0.0772297
D7XGF3	TY-2482_chromosome	+	473456	473647	43.18551837	46.78136566	54.40217763	50.20672747	51.97250008	28.28478573	0.098556413	0.203396895	0.1503251
B7L6F3	TY-2482_chromosome	+	473675	474109	101.5484903	103.7526808	122.4276445	147.0806919	166.6281877	126.654142	-0.416594205	1.426459387	1.1726309
B7L6F4	TY-2482_chromosome	+	474191	475594	128.0119084	109.2263856	118.1399992	223.7724112	239.3469376	244.6352335	-0.948844954	6.128146103	5.4283188
B7L6F5	TY-2482_chromosome	+	475842	476984	153.2550741	133.1749186	178.6412154	270.2397151	206.4729777	244.6867169	-0.585637515	2.547708227	2.1583423
B7L6F6	TY-2482_chromosome	+	477005	478015	79.98824725	80.03965384	81.20529492	150.9185001	110.0257033	114.6871954	-0.68135436	2.74520109	2.3357872
B7L6F7	TY-2482_chromosome	+	478019	478957	50.00035142	58.34709712	50.72720337	69.54396359	65.46986124	77.4386204	-0.442760356	1.164684518	0.9467198
B7L6F8	TY-2482_chromosome	+	478950	479741	51.63385758	47.05229385	50.84755052	124.1727948	120.1168542	117.1825304	-1.258955575	8.824117954	7.9536474
B7L6F9	TY-2482_chromosome	+	479766	481187	155.9753813	212.0500941	186.8565223	501.4446547	370.2632675	456.4627568	-1.337496175	8.079936725	7.2511798
B7L6G0	TY-2482_chromosome	+	481400	482206	373.5783515	515.6451085	439.6721357	289.0765341	365.4060996	21.26824693	0.738564453	1.440831188	1.1844344
C8TRH0	TY-2482_chromosome	+	482551	482739	100.6623545	102.7068946	41.82314891	9.66622433	41.4063329	12.406779	1.835544547	6.315343154	5.6029408
B7L6G1	TY-2482_chromosome	+	482826	483071	48.69801883	42.05461124	45.5223774	17.53249913	22.81372702	18.52278935	1.242925016	4.982643885	4.361123

B7L6G2	TY-2482_chromosome	+	483160	483390	644.0165166	686.0088419	480.7193548	325.2057367	511.6694815	352.8954791	0.547525461	2.108169409	1.7668871
B7L6G3	TY-2482_chromosome	-	483397	483843	212.2491623	255.9744538	209.0712683	136.2603551	163.8462522	163.021759	0.514774884	2.069582722	1.7326631
B7L6G4	TY-2482_chromosome	-	483843	484592	335.5486706	403.4809871	382.3160863	212.5463501	232.9768407	243.2608702	0.692891916	3.192344808	2.7305554
B7L6G5	TY-2482_chromosome	+	484539	485573	352.5155857	518.431158	482.8112968	239.9555668	170.8202655	424.822115	0.739829122	2.015741717	1.6851833
D3GRI3	TY-2482_chromosome	+	485717	486436	101.5671138	115.3164048	108.9249088	53.68120848	63.7668208	54.07858745	0.903003619	4.868137269	4.2545057
B7L6G7	TY-2482_chromosome	-	486478	488577	207.1208871	201.4407841	215.3044113	344.4598733	393.1522987	415.543715	-0.840556713	4.748889106	4.1449218
B7L6G8	TY-2482_chromosome	+	488819	489877	1034.183194	1020.678068	1131.145786	249.6921016	223.8278037	234.2248643	2.180149261	24.46703432	23.07014
B7L6G9	TY-2482_chromosome	-	489996	491492	560.8587365	531.4336969	589.0482577	168.4801559	137.3611741	137.0263517	1.915759964	19.13975765	17.878352
B7L6H0	TY-2482_chromosome	+	491759	492373	40.98550351	44.02636656	48.36159989	29.94105196	47.53335208	24.18847979	0.382908141	0.77964068	0.6183402
B7L7F9	TY-2482_chromosome	+	495660	499898	85.94478707	80.81669969	95.26698181	79.3573774	66.30688215	100.7950443	0.159338071	0.172777634	0.1275907
B7L7G3	TY-2482_chromosome	-	501681	502247	77.06191668	74.83212192	72.52455948	68.00858744	99.39136816	60.96996752	-0.036188764	0.040833111	0.0278912
B7L7G4	TY-2482_chromosome	+	502420	503262	115.5088918	182.4072135	139.8506038	205.4220831	129.3349702	215.7602427	-0.647751947	2.0701517253	1.7341841
B7L7G5	TY-2482_chromosome	-	503364	504254	301.2594736	329.3081792	318.8885605	594.697832	688.0298072	684.0285805	-1.043694069	6.662018547	5.9259169
B7L7G6	TY-2482_chromosome	-	504336	505013	36.47121698	36.94517417	47.21116864	68.97991453	73.76527059	59.48043814	-0.722901938	2.742374535	2.3334489
B7L7G7	TY-2482_chromosome	-	505013	505705	31.27884805	25.24063687	42.78051105	65.39208402	61.78086567	92.81770458	-0.992131192	4.794289246	4.1860961
B7L7G8	TY-2482_chromosome	-	505708	507249	71.04042136	74.26912751	66.52436924	183.3047033	122.6443082	224.2947619	-1.315853194	7.779496606	6.9762754
B7L7G9	TY-2482_chromosome	-	507249	510986	140.3846522	166.6815938	159.8274172	535.3390521	375.6522336	624.3374309	-1.720361275	12.92575833	11.857477
B7L7H0	TY-2482_chromosome	-	511071	512456	59.69364892	71.1057059	61.96457318	150.5665518	127.3372599	142.0775538	-1.176939643	7.467096789	6.6862729
C6UU60	TY-2482_chromosome	-	514687	515565	79.61876895	66.990799	52.30926638	83.99210845	100.2149982	71.42672244	-0.399781053	0.913147016	0.7294726
B7L7H4	TY-2482_chromosome	+	515797	518841	1425.427104	1393.545089	1330.23357	122.4984801	82.65820452	116.9051081	3.668568045	55.33934434	53.36124
B7L7H5	TY-2482_chromosome	+	518857	519738	207.2362294	195.9661534	188.013607	49.11863838	28.97776945	39.48799526	2.289516858	24.8287529	23.42226
B7L7H6	TY-2482_chromosome	+	519734	520384	110.9885668	81.48299813	90.30518405	43.89494699	53.79234479	38.47110077	1.08811829	5.430730059	4.7769399
B7L7H7	TY-2482_chromosome	-	520441	520809	142.877628	124.9096012	146.701294	187.7096752	197.4877885	196.0231818	-0.438184522	1.855447569	1.5464873
B7L7H8	TY-2482_chromosome	-	520872	521879	755.4840974	662.741174	668.0148861	1354.350812	1142.943524	1298.466727	-0.85582286	4.962646874	4.3431118
B7L7H9	TY-2482_chromosome	-	522016	523710	4924.440007	4940.865137	5313.031015	7450.825318	5908.858637	6985.858113	-0.422330764	0.573402248	0.4442563
B7L7I0	TY-2482_chromosome	-	524109	524321	11.80605164	13.2282294	16.05083182	91.47042484	145.8255722	95.07640766	-2.978753199	22.75081869	21.398969
B7L7I1	TY-2482_chromosome	+	524667	525095	893.7562014	834.9474275	823.8525091	1129.858193	1534.499158	1172.46227	-0.573580837	2.290329299	1.930273
B7L7I2	TY-2482_chromosome	-	525157	526080	100.3040067	93.04662014	90.31026103	74.476425	80.9399714	107.3675336	0.168854132	0.215334068	0.1590245
B7L7I3	TY-2482_chromosome	-	526076	527059	43.43807978	43.46273835	37.410015	50.57537631	46.36540807	52.54058922	-0.285722802	0.575657602	0.4459989
B7L7I4	TY-2482_chromosome	-	527059	527952	46.19306544	68.79285523	41.14886627	43.88275285	59.32259311	33.41295611	0.024447823	0.258644078	0.1925845
B7L7I6	TY-2482_chromosome	-	528976	530523	30.98275325	39.3983202	56.1605087	47.3104867	28.09704237	30.53462506	0.235044222	0.426731783	0.3257347
B7L7I8	TY-2482_chromosome	-	531379	533775	222.033735	261.0229788	203.0263241	366.4455348	304.7416005	420.6035916	-0.716881792	2.745673711	2.3360155
B7L7I9	TY-2482_chromosome	-	533803	535182	168.9228233	160.793097	193.7191331	306.1789363	266.5814222	293.3670776	-0.69523242	3.445877583	2.9565001
B7L7J0	TY-2482_chromosome	-	535557	536873	111.5888473	110.0089831	85.39810512	164.3640611	171.1696017	121.5431493	-0.656810686	2.22060289	1.8687786
B7L7J1	TY-2482_chromosome	-	537007	538539	57.48350458	63.93309306	60.04481696	648.0035523	408.4145548	608.8937305	-3.234453514	36.512672	34.857648
B7L7J2	TY-2482_chromosome	-	538698	540095	204.3139062	171.2251996	188.1365675	1276.611475	849.8328373	1053.850312	-2.497118016	26.92647766	25.495019
B7L7J3	TY-2482_chromosome	-	540460	543252	299.0592904	299.2578839	322.9724928	104.8531622	80.01121946	81.77831052	1.762396375	16.39274015	15.201742
B7L7J4	TY-2482_chromosome	-	543300	545669	172.0516879	157.8647089	168.3653429	60.37873059	49.15834243	30.91515132	1.760615057	15.0276593	13.890758
B7L7J6	TY-2482_chromosome	-	547686	548840	48.56406543	57.75282253	43.28006525	75.93754909	60.93303583	55.566627	-0.478201747	0.95033966	0.7611104
B7L7J7	TY-2482_chromosome	-	548895	550574	593.7468073	648.1215133	554.3593329	472.1456141	335.7024955	355.4598741	0.5365448	2.535623224	2.1474219
B7L7K0	TY-2482_chromosome	-	552260	554536	205.3822323	263.8705276	237.0219072	111.6571114	64.43807014	88.1750818	1.324425494	9.560171061	8.6582215
B7L7K1	TY-2482_chromosome	-	554873	555784	118.8620803	130.5188613	112.7082404	27.44265621	16.28099328	18.60607512	2.441431291	23.58973507	22.206851
B7L7K2	TY-2482_chromosome	-	555846	556346	97.29954505	88.20100965	91.0492297	21.23690549	15.39873932	18.44505972	2.318177636	19.50871441	18.234975
B7L7K3	TY-2482_chromosome	-	556362	556889	93.27488114	124.060152	95.5108797	19.31818182	16.37831394	12.16453831	2.566320483	22.4487048	21.10533
B7L7K4	TY-2482_chromosome	-	556906	559554	283.4741247	251.0724673	289.3014131	61.75231102	70.16634491	49.08642451	2.195946904	23.45246224	22.076418
B7L7K5	TY-2482_chromosome	-	559599	560315	162.2213795	165.0183691	169.0514265	42.98388494	10.47075749	28.08410262	2.105956781	23.15060806	21.785729
B7L7K6	TY-2482_chromosome	-	560643	561251	3620.139762	3730.321183	4186.786691	1235.349371	1390.674178	985.8975983	1.664552483	5.403563277	4.7511906
B7L7K8	TY-2482_chromosome	-	562159	563478	296.6881081	327.1972324	352.7771471	266.9395635	217.4302472	231.650801	0.427490592	1.554639413	1.2837502
D7YR1T	TY-2482_chromosome	-	563481	563771	92.46813136	122.0761988	106.2680685	83.78249481	81.98583851	49.34765183	0.45202377	1.864622391	1.5541655
B7L7L0	TY-2482_chromosome	-	563956	569374	102.8044527	150.1120165	134.7891582	180.4323977	105.354636	170.7514207	-0.313017564	0.860137918	0.4088822
B7L7L1	TY-2482_chromosome	-	569908	571497	61.36847635	52.69355729	62.15578598	115.5210148	83.64836354	80.58836338	-0.680445008	2.494498029	2.1111544
B7L7L2	TY-2482_chromosome	-	571579	572529	99.36329131	107.8678527	104.304826	184.3281722	139.1491151	148.826927	-0.651273612	2.574974511	2.1837337
B7L7L3	TY-2482_chromosome	+	572778	574310	21.3960903	36.14123132	25.63207138	90.05924965	55.38585831	60.79752514	-1.485321845	5.661995196	4.9912085
B7L7L4	TY-2482_chromosome	+	574307	575332	25.4547808	21.57543432	25.81485705	58.26468729	31.66193712	53.722819	-0.953875402	3.116446692	2.6617636
B7L7L5	TY-2482_chromosome	+	575335	576324	19.4458542	16.42684916	20.56667497	57.92380876	34.4707259	34.58110336	-1.196250564	4.051385657	3.5076505
B7L7L6	TY-2482_chromosome	+	576339	577358	49.363815	57.6139559	40.54963906	110.034592	87.29913513	89.63534278	-1.069339445	4.69747059	4.0980668
B7L7L7	TY-2482_chromosome	+	577388	578260	52.30924941	45.25464928	59.69127817	209.2267838	177.4334452	159.5209306	-1.777601513	15.39500679	14.238088

B7L7L8	TY-2482_chromosome	+	578287	578574	19.00108946	30.43851851	35.47594311	103.6639433	79.12507826	70.12726633	-1.642170678	8.468512308	7.6160247
B7L7L9	TY-2482_chromosome	+	578634	579389	175.8211164	155.5350543	170.358058	160.8484565	154.6689792	170.9208468	0.082705747	0.092364464	0.067821
B7L7M0	TY-2482_chromosome	-	579399	580310	85.89682654	90.2590328	93.8340385	85.24603158	89.18063285	92.03561006	0.032348784	0.029554864	0.0197388
B7L7M1	TY-2482_chromosome	-	580520	581968	352.7947248	401.3357879	395.5463662	665.7559713	457.6064658	577.5320261	-0.610213992	2.139061845	1.7942154
E1HZE7	TY-2482_chromosome	-	582116	582277	35.63534167	37.21775869	52.68235863	51.50115814	37.20543322	47.30629152	-0.074726543	0.15792629	0.1154761
B7L7M2	TY-2482_chromosome	-	582198	583613	302.0457679	319.1987295	312.2741051	307.2055591	311.2096953	341.906231	-0.034440349	0.073736285	0.0530795
B7L7M3	TY-2482_chromosome	-	583755	584111	54.63606869	47.42082151	54.86943519	59.73152894	59.13921744	60.51964758	-0.1533433	0.380016985	0.2883199
B7L7M4	TY-2482_chromosome	-	584114	585037	192.8017787	225.5498159	197.9486854	233.1081599	228.400453	238.0989348	-0.223031056	0.447794131	0.3422102
B7L7M5	TY-2482_chromosome	-	585104	586489	288.3806156	357.1476232	348.7283931	348.7283931	97.22328375	153.377236	1.414950638	9.804995237	8.8852219
B7L7M6	TY-2482_chromosome	+	586590	587468	61.95838052	64.65002302	69.44608212	70.27112955	68.23560274	69.74450599	-0.079997788	0.148270806	0.1080185
B7L8K7	TY-2482_chromosome	+	588812	589999	207.9710253	203.3537294	185.9807514	183.6974069	220.3212952	180.4493013	0.017250977	0.048862744	0.0340542
B7L8K8	TY-2482_chromosome	-	590030	590692	320.1637761	274.4012351	317.0027293	173.826075	243.2078174	140.0689363	0.729920229	2.877374683	2.4505169
B7L8K9	TY-2482_chromosome	+	590904	591335	120.3066317	130.9623159	124.7483069	118.1559665	140.2641115	99.08850874	0.033201058	0.121725664	0.0892864
B7L8L0	TY-2482_chromosome	+	591358	591738	266.9266903	265.6884412	280.0054441	324.8618898	375.9045186	343.4365198	-0.341352375	1.126120927	0.9111324
B7L8L1	TY-2482_chromosome	+	591773	591988	106.7075598	135.1915535	120.134273	130.5566872	140.1628387	136.8325893	-0.211960195	0.429434214	0.3275958
B7L8L2	TY-2482_chromosome	-	592051	593493	52.34875278	53.84417832	49.38911305	37.28193647	26.33216457	24.00738244	0.748811607	2.852905916	2.4300975
B7L8L8	TY-2482_chromosome	-	598273	599169	68.35324669	101.7232899	101.3114486	99.56010857	107.3653401	122.1035112	-0.287064033	0.730651646	0.5754867
B7L8L9	TY-2482_chromosome	+	599364	600548	63.33609984	81.20582225	72.62162788	90.52853675	99.23198683	89.57552254	-0.410554334	1.103467771	0.8919001
B7L8M0	TY-2482_chromosome	-	600996	601883	129.4885815	114.1381072	119.4354319	180.7607766	197.5966705	128.2129329	-0.503517796	1.628343841	1.349752
B7L8M1	TY-2482_chromosome	-	602141	602530	51.76417093	57.22851172	33.03814647	70.49858544	79.32348555	40.21614227	-0.584940938	0.916645589	0.7325352
B7L8M2	TY-2482_chromosome	+	602806	603321	24.35769874	39.23453548	31.70025368	29.54017965	32.81464254	25.24905748	0.017731809	0.110617548	0.0810891
B7L8M3	TY-2482_chromosome	-	603372	605414	1345.158881	1542.373142	1523.24045	2127.238209	1829.117833	2156.158462	-0.488148729	1.669160123	1.3836456
D3GSH5	TY-2482_chromosome	+	605536	606294	3041.271182	3338.223753	3516.57981	3218.688371	3271.668558	2841.987894	0.066179508	0.0899256	0.0658626
B7L8M5	TY-2482_chromosome	+	606386	607069	766.3950845	831.7847231	836.5798288	531.9133658	515.9675235	551.177696	0.60367362	2.71119229	2.0371192
A1ABC3	TY-2482_chromosome	-	607211	607480	89.10012664	84.93867167	76.35323174	30.47927172	25.45777989	22.61384751	1.617288574	11.24904459	10.261797
B7L8M7	TY-2482_chromosome	-	607492	608949	115.9807595	113.2453737	104.1301521	116.6726645	79.950774	101.2850229	0.123559495	0.344661226	0.2598099
B7L8M8	TY-2482_chromosome	-	609041	610321	38.401162	69.46394971	57.5531385	52.83668349	41.80134328	43.55291692	0.132338434	0.438125842	0.3342374
D3GTE7	TY-2482_chromosome	-	610466	611482	80.37288785	119.152103	105.7290405	159.704371	97.22631145	113.3663582	-0.403669963	0.688906419	0.5237099
B7L5D3	TY-2482_chromosome	-	611497	612708	85.21221614	80.66753857	91.91307802	67.93122091	75.49855849	94.30648382	0.194479624	0.236486263	0.1752743
D3GTE9	TY-2482_chromosome	-	612917	613249	44.55177869	69.50597804	52.02867517	22.1614558	21.79146882	28.66656314	1.121010828	4.714252287	4.1137121
B7L5D5	TY-2482_chromosome	+	613375	613713	842.0573896	847.4170651	823.2350473	582.96601	645.2489034	635.4067594	0.439117827	1.536362888	1.2665377
B7L5D6	TY-2482_chromosome	+	614308	614380	904.9248406	868.3638082	867.4778317	822.1097878	838.1429529	877.440167	0.07234238	0.118559209	0.0871936
B5Z420	TY-2482_chromosome	-	614317	615060	301.3406593	294.1817208	315.6741569	198.2488754	231.2521229	176.6301022	0.589641213	2.446231678	2.0690548
Q6EWW5	TY-2482_chromosome	+	615129	615434	436.0498487	447.4700605	378.0045123	138.4248444	211.1787705	241.5047249	1.143988811	5.840586732	5.1575911
B7L5D9	TY-2482_chromosome	+	615636	618059	209.2474476	226.6140119	233.8284582	118.9184615	112.8238773	114.5045456	0.942414662	5.844241625	5.1607871
B7L5E0	TY-2482_chromosome	+	618123	620543	107.497048	141.9948005	107.3562644	115.7244885	103.7071186	106.6371128	0.030249914	0.234561706	0.1740066
Q8KU25	TY-2482_chromosome	+	621078	621710	244.5274573	247.2426439	240.2554655	105.2583368	132.8908202	144.4140351	0.977601673	5.329416937	4.6824867
D7JRD8	TY-2482_chromosome	+	622250	623083	43.96191986	44.59499302	55.10121767	40.23201412	27.16146386	43.11949496	0.419657155	0.866145363	0.6902444
C8TPV2	TY-2482_chromosome	+	623061	623600	24.52828897	22.06059062	33.43006555	26.78016224	25.42132903	33.91313307	-0.000339898	0.09230547	0.067821
B3IP95	TY-2482_chromosome	+	623600	624100	56.39532794	83.82522073	84.82464071	44.91581067	59.20662058	57.7621434	0.474150378	1.290103749	1.0518682
C8UML1	TY-2482_chromosome	-	624507	632855	936.8413483	1096.451403	1036.579498	1085.64741	879.8922456	1177.159632	-0.051804958	0.059644861	0.0423679
C8UML0	TY-2482_chromosome	-	632927	634189	54.94499897	83.20493186	74.73174499	74.92555927	74.63668859	67.27501185	-0.105174568	0.056275905	0.0397725
C6UNY2	TY-2482_chromosome	-	634913	635566	41.2317979	28.01503742	43.16093569	27.34099709	13.48798478	24.82419786	0.853078311	0.076670264	1.7387159
C8U7H9	TY-2482_chromosome	-	635661	636059	173.9932581	132.0772602	110.3649493	60.64511487	124.2462252	32.64213609	0.895037265	2.602637457	2.2083456
C8UMK2	TY-2482_chromosome	-	638227	639492	54.45705026	45.91137258	72.52078368	49.27105721	32.57817436	63.82589208	0.375888673	0.476277333	0.3643372
C6UNY7	TY-2482_chromosome	-	639492	641192	48.36405463	63.24956668	57.47649713	50.66615464	32.58076367	61.2901593	0.207089771	0.400395036	0.3038179
C8UMJ7	TY-2482_chromosome	-	642326	644230	51.92212451	89.53852664	66.5970715	41.39488548	27.23632212	22.81231975	0.985351152	4.540159714	3.9559959
B7MPZ1	TY-2482_chromosome	-	644880	645500	28.529309	29.94398965	20.7415479	29.48150851	27.24674078	34.01223959	-0.238284141	0.295370269	0.2210339
C8U7J1	TY-2482_chromosome	-	645939	646325	22.55787177	18.65730265	19.02339481	31.28624104	34.56954855	39.26750187	-0.749700995	2.151973889	1.8060736
C8U7J2	TY-2482_chromosome	-	646383	647594	64.28319903	66.78157353	63.30512157	107.5568276	72.67877967	86.9154996	-0.508798929	1.418369255	1.1653935
B7MPY7	TY-2482_chromosome	-	647620	648624	34.94659739	36.81270035	46.56577182	46.94380928	51.83680029	65.38517365	-0.388037347	1.183776202	0.9613879
B5YYP6	TY-2482_chromosome	-	648785	650926	200.2972488	230.7821841	203.2232953	130.6301012	106.3378376	160.005792	0.666000513	2.885918559	2.458552
C8UMI9	TY-2482_chromosome	-	650929	652632	132.1888698	172.8376393	129.1095822	93.82910635	79.05395074	115.3188937	0.5331142	2.14456747	1.7992998
C8U7J6	TY-2482_chromosome	-	652616	653428	54.72986261	53.56740667	42.56145573	26.68541606	30.94989446	32.76086428	0.729285908	2.343367189	1.9776051
Q07682	TY-2482_chromosome	+	654031	654609	55.62468257	26.7849467	54.46842694	6.931889065	11.90375848	9.241049652	2.46414883	10.43996601	9.4898903
C6USU0	TY-2482_chromosome	-	656320	656724	41.27564222	36.40774343	34.13058632	32.4950671	23.58512314	26.41036899	0.409769302	0.977254144	0.7832914
B7MPX6	TY-2482_chromosome	-	656912	658849	223.6316487	245.8287759	187.7600174	178.9240634	160.1610791	141.0860317	0.354622487	1.498830557	1.2346413

Q9FBI1	TY-2482_chromosome	+	658955	659266	6702.274578	5600.227978	2137.708641	685.6338953	2795.730574	489.5530556	1.74118036	3.347177614	2.8673838
C6UP10	TY-2482_chromosome	-	659588	660019	53.02605573	56.48609264	54.7774345	34.31454042	33.7035527	25.33842833	0.764861364	2.935551325	2.5020317
B7MPW6	TY-2482_chromosome	-	661535	662203	59.77354145	75.04037209	50.41759024	29.01597751	40.05282534	48.23603498	0.630300192	1.874965417	1.5637298
C8TS13	TY-2482_chromosome	+	662589	662914	200.992852	223.8765906	228.5523934	87.49250114	98.41398839	58.5135485	1.361439962	10.35028219	9.4054089
C8TS14	TY-2482_chromosome	+	662910	663244	204.8333382	228.3153754	199.2178047	129.2447224	161.2149811	112.2396577	0.596308648	2.757439303	2.3459122
D6I789	TY-2482_chromosome	-	663281	663763	1450.683963	1642.424677	1476.82857	766.7535958	1110.506382	662.3437386	0.797633228	3.831370376	3.3036434
Q8X288	TY-2482_chromosome	-	664174	664383	11677.03022	9292.446612	10007.06027	3974.915425	10621.92921	2725.935076	0.857988483	1.171724622	0.9521852
C6UV05	TY-2482_chromosome	-	664795	665436	213.879836	223.54793	199.1986918	134.3124654	170.2660363	147.4272163	0.482975991	1.865262849	1.5546114
C6USS4	TY-2482_chromosome	-	665436	665828	34.88284558	49.84834727	41.56953798	45.21262256	41.79508672	53.67051545	-0.200961254	0.271398139	0.2030057
C8U729	TY-2482_chromosome	-	665847	666614	63.61846681	55.16757161	63.44679399	58.32250579	63.72525591	60.55539904	0.040401914	0	0
B7MPV9	TY-2482_chromosome	-	666643	667380	25.981666572	30.77219214	32.51102001	31.39479504	29.05309994	39.16230018	-0.134350165	0.215967629	0.1594413
B7MPV8	TY-2482_chromosome	-	667390	668469	50.95278518	37.95415452	51.66812765	41.26090297	41.8405807	45.93861519	0.213371582	0.224259062	0.1659191
P03034	TY-2482_chromosome	+	669459	670169	2277.01618	2536.678414	2462.693318	1528.206587	1606.283135	1397.411073	0.652058281	2.06349227	1.7277681
B7MPV3	TY-2482_chromosome	+	670219	670758	1116.34157	1274.398439	1230.707503	856.5954572	799.0271366	712.0334707	0.562087223	2.770366345	2.357273
B7MPV2	TY-2482_chromosome	+	670749	671522	1461.132347	1688.637365	1501.915069	1123.932199	1135.825452	801.7932009	0.514932111	2.295797588	1.935305
C8U8P7	TY-2482_chromosome	+	674945	677014	145.8084444	161.1445193	131.766601	76.20248791	72.78047068	75.00717393	0.917245475	5.732117244	5.0668486
Q9LA41	TY-2482_chromosome	+	677316	678098	50.43770202	75.84790792	72.85529483	62.87136147	56.3192829	82.39750524	-0.02571271	0.021714374	0.0147118
C6V295	TY-2482_chromosome	+	678098	678775	58.15645974	68.89176985	65.39213104	57.2755259	38.05353045	65.33781031	0.250002315	0.517427549	0.3979105
C8TPU7	TY-2482_chromosome	+	678826	679074	22.3724663	21.28673567	25.22150155	25.30526522	29.10462338	35.22524022	-0.304179593	0.64646837	0.5048463
C8U2L7	TY-2482_chromosome	+	679339	680499	400.6851088	465.2191252	420.4888983	510.4384056	373.9785194	308.4473912	-0.007957226	0.198192534	0.1462425
A1ABD5	TY-2482_chromosome	+	680851	681942	149.8826039	219.7073927	202.849197	193.071585	208.4590695	172.6151521	-0.077076636	0.00836676	0.0054068
B7L5E3	TY-2482_chromosome	+	681988	682599	255.523976	298.3628092	303.8602699	445.8892183	441.3600768	449.94173	-0.652295711	2.791576162	2.3755848
B7L5E4	TY-2482_chromosome	+	682797	684050	302.703335	344.573819	332.7855575	80.66423208	74.54826146	95.72969164	1.968316367	19.33141122	18.064763
B7L5E5	TY-2482_chromosome	-	684009	684707	1600.93813	1764.318303	1833.616498	182.9729708	145.5438353	146.2468396	3.412433728	55.79974764	53.783855
B7L5E6	TY-2482_chromosome	-	684829	686046	1023.14711	976.2525667	904.9654367	797.4791749	639.6594158	774.785815	0.376920871	1.360932782	1.1152221
B7L5E7	TY-2482_chromosome	-	686184	687074	106.8822803	122.3717329	99.44312198	78.40938797	56.29476764	76.14888781	0.578196993	2.545166561	2.1560338
B7L5E8	TY-2482_chromosome	+	687181	688431	441.28448	430.144495	404.5576486	245.4057584	262.0862047	280.0774281	0.708377786	3.281747365	2.8090756
B7L5F0	TY-2482_chromosome	+	689442	690260	900.160817	1060.573681	1045.912919	343.1844001	413.2290644	374.9912934	1.403898568	11.11623988	10.135413
B7L5F1	TY-2482_chromosome	-	690305	690631	150.1401962	174.4327378	165.0667385	55.0092637	98.40557661	95.70393452	1.025324114	4.857070117	4.2442196
B7L5F2	TY-2482_chromosome	-	690621	690983	133.7851851	139.1190942	140.6572027	62.22803457	96.48347499	121.6387433	0.657591853	1.929888305	1.6101928
B7L5F3	TY-2482_chromosome	+	691395	692426	404.4254426	472.8354977	420.4646169	61.18923026	56.40182973	55.36700987	2.849569673	38.22804514	36.527741
B7L5F4	TY-2482_chromosome	-	692457	693842	2607.678563	2622.32771	2646.216327	2637.256272	2245.860476	0.072702293	-0.027166747	0.072702293	0.0524445
B7L5F5	TY-2482_chromosome	-	693856	695385	2452.74706	2645.398521	2783.038506	3209.410791	2390.511974	3963.281939	-0.243103818	0.353792302	0.2673183
B7L5F6	TY-2482_chromosome	+	695909	696850	1272.058072	1315.872776	1219.972898	2683.87233	2489.805276	3270.189941	-1.135378954	4.688741542	4.0908484
B7L5F7	TY-2482_chromosome	+	697039	698418	267.1508921	220.9288034	244.9228355	395.9504117	400.4166204	402.5852482	-0.668681911	3.328947168	2.8513238
B7L5F8	TY-2482_chromosome	+	698458	699177	322.1778625	347.6501298	355.956216	250.543797	287.5876905	303.7164021	0.311938922	0.793935065	0.6304112
B7L5F9	TY-2482_chromosome	-	699180	699512	125.4550028	141.4126517	144.0444895	94.26830006	118.3833409	103.9934705	0.382587555	1.189162475	0.9653427
D3GTJ4	TY-2482_chromosome	+	699605	700357	217.8307712	186.2000274	183.3420822	329.3786297	380.4280254	382.7348293	-0.855836082	4.996157051	4.373041
B7L5G1	TY-2482_chromosome	+	700364	701662	299.1264162	308.745591	285.0769314	353.6605306	411.3704099	415.6109832	-0.3954416628	1.347041959	1.1031705
B7L5G2	TY-2482_chromosome	+	701741	702667	189.9986044	178.2338978	182.8425251	106.8625275	100.9333641	133.7890242	0.73555872	3.253656316	2.7846424
B7L5G3	TY-2482_chromosome	-	702670	704070	477.477592	655.2537638	613.4905712	379.0243772	280.1235377	432.3540684	0.64815648	2.668508714	2.2673213
B7L5G4	TY-2482_chromosome	-	704216	705859	3060.854292	3039.869085	3206.832073	2940.367144	2441.580183	2803.526035	0.186443734	0.220666064	0.1632718
B7L5G5	TY-2482_chromosome	+	706058	707230	1415.570505	1424.892305	1542.445249	1397.559755	1129.273471	1424.541881	0.209962164	0.4231546	0.3225175
B7L5G6	TY-2482_chromosome	+	707334	708839	5390.316415	5366.147043	6074.380398	5626.123706	4871.392122	6480.337049	0.034284596	0.011579738	0.007653
B7L5G9	TY-2482_chromosome	-	711564	713372	25.27449435	24.27876213	33.35702398	46.55396303	26.24456034	35.58393499	-0.375531424	0.696397438	0.5469619
B7L5H0	TY-2482_chromosome	-	713764	714351	441.9055712	503.470035	411.7079912	185.5995533	176.4522623	245.4894587	1.14887843	7.176734946	6.4111511
B7L5H1	TY-2482_chromosome	-	714583	715347	669.5629196	585.0937326	534.4670687	415.0240585	443.2400386	385.6841237	0.513996967	1.9786187307	1.6600874
B7L5H2	TY-2482_chromosome	-	715462	716487	384.9498283	492.3189008	380.0100802	426.5738232	333.8974419	369.7636102	0.046053923	0.316505009	0.237514
B7L5H3	TY-2482_chromosome	+	716662	718251	360.7431992	279.7453965	304.9045201	320.1413675	235.5692058	302.4684363	0.169859885	0.292039787	0.2182677
B7L5H4	TY-2482_chromosome	+	718264	719433	457.1198794	367.3931917	422.5653471	368.1835752	342.0692115	483.5850148	0.155836704	0.116773651	0.0857147
B7L5H5	TY-2482_chromosome	+	719540	720538	1692.436944	1617.761668	1549.415911	2198.290811	2512.634182	2932.108592	-0.608941955	1.751925597	1.4578807
B7L5H6	TY-2482_chromosome	-	720579	721616	952.7182919	884.6265022	1029.505071	2319.470949	2330.623547	2441.717018	-1.261777523	9.642532004	8.7336948
B7L5H7	TY-2482_chromosome	+	721784	721981	340.4293507	289.5801509	308.9220502	30.52294215	56.74106612	20.46547576	3.120312069	32.39507612	30.849674
D6JA38	TY-2482_chromosome	+	722073	722333	192.132704	191.05913	204.7668196	23.56790938	55.79670735	31.84666023	2.452697485	22.68850525	21.340913
B7L5H8	TY-2482_chromosome	+	722257	722469	105.2354248	123.1586667	122.9114698	27.9541294	38.31484966	30.38255204	1.855113388	15.30879055	14.158254
B7L5H9	TY-2482_chromosome	+	722558	722995	212.1825338	268.654654	221.0062424	145.7751534	240.4298837	193.4169087	0.253133508	0.659434345	0.5158301
B7L5I0	TY-2482_chromosome	+	723075	723653	105.3203934	127.2797894	103.4455296	468.2844039	471.4220832	433.0050893	-2.101888892	20.12109864	18.830969

B7L5I1	TY-2482_chromosome	+	723656	724231	124.9699059	97.42145892	131.6467563	508.2153847	535.1261436	514.4565207	-2.058588663	21.96385259	20.634921
B7L5I2	TY-2482_chromosome	+	724227	726446	570.7314709	495.6103633	532.7779231	1561.278871	1761.835385	2080.894651	-1.68066462	15.47996522	14.320307
B7L5I3	TY-2482_chromosome	+	726450	727505	513.2237737	441.2455161	438.2070831	1001.098331	1138.457446	1319.187118	-1.25112965	9.922299165	8.9945423
B7L5I4	TY-2482_chromosome	+	727512	728129	602.1147829	521.5344595	582.366439	854.8543378	922.7964412	949.7784504	-0.623713429	3.134133992	2.6775524
A7ZM93	TY-2482_chromosome	-	728423	729130	542.8951091	541.1874906	555.9382211	693.6297288	610.5816707	672.2509237	-0.270200651	0.741077834	0.5851143
B7L5I7	TY-2482_chromosome	+	730077	731576	2886.730526	2615.337427	2806.008579	3160.142245	3127.833359	3171.95761	-0.162586696	0.224024804	0.1658697
B7L5I8	TY-2482_chromosome	+	731685	732287	541.9564771	630.5420244	629.9784603	506.6132709	549.6270788	677.0951331	0.086668233	0.10173543	0.0746446
B7L5I9	TY-2482_chromosome	-	732337	733197	667.7097665	720.8992957	702.4850615	1386.938969	1352.300359	1474.693732	-1.015116048	6.197451177	5.4923481
B7L5J0	TY-2482_chromosome	-	733259	734530	2834.136935	3065.272166	3243.236916	6394.028898	5607.674369	6128.1217	-0.993487497	2.101012124	1.7609808
B7L5J1	TY-2482_chromosome	-	734662	735315	631.097131	639.1295095	675.512727	849.1714228	771.6593653	881.3339577	-0.348669806	1.166919695	0.9481711
B7L5J2	TY-2482_chromosome	-	735377	735703	102.5499133	86.2908272	99.75059006	205.6651742	235.847548	145.3600648	-1.024919198	5.486304979	4.8278271
B7L5J3	TY-2482_chromosome	-	735804	736910	465.9411291	415.9070933	477.4742489	1163.383293	928.16223	1034.120166	-1.185219335	8.515283463	7.6614387
E7URP8	TY-2482_chromosome	+	737184	737896	6464.958354	6568.801812	7178.240873	3272.749572	3892.322261	3958.523798	0.908461388	1.650668925	1.3686295
B7L5J6	TY-2482_chromosome	+	738333	738566	58.86662524	82.54868323	59.82702558	68.57477024	65.5633651	47.82176757	-0.000863341	0.215711659	0.1592937
B7L5J7	TY-2482_chromosome	+	738572	739426	111.5108109	110.4076878	96.13444116	159.6004779	173.8896742	137.1547249	-0.608503461	2.348686877	1.9820402
B7L5J8	TY-2482_chromosome	+	739429	741438	294.7480083	268.4830148	272.5868173	306.6417406	318.5339263	301.3652496	-0.13760449	0.331863488	0.2494348
B7L5J9	TY-2482_chromosome	-	741445	741963	329.7756519	292.6169726	365.3921566	517.6174955	488.6835108	472.4422029	-0.543416693	2.326272682	1.9629337
B7L5K0	TY-2482_chromosome	-	742047	742940	780.5878329	842.2783747	876.9176821	1651.816857	1608.989113	1413.246086	-0.927218161	4.963909502	4.343978
B7L5K1	TY-2482_chromosome	-	742992	743399	119.4783848	152.6018619	119.9343107	43.98668663	51.97514976	34.61585138	1.48237707	11.52790773	10.529428
C8UB70	TY-2482_chromosome	+	743331	743927	44.55669352	62.96837893	56.86202476	71.40631668	79.19396901	77.60186538	-0.514162083	1.44473749	1.1874812
B7L5K3	TY-2482_chromosome	+	743967	745061	378.289526	376.8375903	433.3556933	1207.002717	1034.606767	1417.806626	-1.569728546	14.28917547	13.173898
B7L5K4	TY-2482_chromosome	+	745145	745549	1194.801293	1393.055485	1417.679519	1103.138	1210.398254	1152.511679	0.203053659	0.516954452	0.3975627
B7L5K5	TY-2482_chromosome	+	745655	746299	229.0181507	199.046366	197.8991425	414.6063416	516.950434	527.3596549	-1.167009062	8.222367427	7.3812477
B7L5K6	TY-2482_chromosome	+	746395	747085	636.5292821	559.9192233	596.8179363	571.2748594	516.8192742	654.8553562	0.088289459	0.074858095	0.0541017
B7L5K7	TY-2482_chromosome	-	751065	751409	2102.131346	2396.436481	1876.682861	967.8716759	1642.821262	1393.141873	0.663509711	2.557014502	2.1667146
B7L5K8	TY-2482_chromosome	+	751743	752555	162.2013465	184.3354649	156.2736627	191.7803334	174.6694508	199.8508443	-0.212152049	0.417921235	0.3184822
B7L5K9	TY-2482_chromosome	+	752686	753264	10842.23932	10146.61676	10250.73187	5424.375273	6143.809986	5578.299102	0.880741923	1.598767981	1.3232377
B7L5L0	TY-2482_chromosome	-	753416	754582	144.9580667	154.5529106	159.2008698	282.3240894	266.5871338	310.2919821	-0.892053346	5.077654685	4.4497175
D6JAZ2	TY-2482_chromosome	+	754924	755145	162.3973345	171.1876635	124.2828042	117.9456037	158.5012847	112.1696236	0.169246515	0.538895924	0.4159365
B7L5L1	TY-2482_chromosome	+	755136	756158	543.6871088	488.1274891	575.9115427	1086.268813	1042.898989	1051.225551	-0.947434173	6.329522899	5.6156458
B7L5L2	TY-2482_chromosome	-	756161	757090	159.9099762	153.2112794	192.4857337	140.2247528	165.6610377	165.6580982	0.173285641	0.217590839	0.1606308
B7L5L3	TY-2482_chromosome	+	757203	758411	223.8237954	164.5363849	210.7276914	145.6764806	134.6066183	172.0160541	0.504347437	1.330629261	1.0889214
B7L5L4	TY-2482_chromosome	+	758705	759850	1177.698307	1272.359377	1304.721234	1876.332904	1684.441452	1893.082597	-0.541995299	2.103583676	1.7633246
B7L5L5	TY-2482_chromosome	-	759896	760534	1110.385493	1251.209814	1192.37563	961.9863476	1200.51836	812.234195	0.212987067	0.634908171	0.495128
B7L5L6	TY-2482_chromosome	+	760749	762119	386.6359909	401.3103669	359.6328194	365.6619759	362.1585519	411.5902393	0.003678804	0.014894255	0.0097252
B7L5L7	TY-2482_chromosome	-	762166	763419	1032.548812	1176.800811	1201.106449	1081.538371	960.9088649	1270.492099	0.056989989	0.074002283	0.0532457
valV	TY-2482_chromosome	+	763727	763803	80.43915701	66.79243039	47.57044416	18.48189164	46.80245606	13.8600282	1.253992568	4.106897357	3.558478
valW	TY-2482_chromosome	+	763808	763884	97.57615549	80.14053171	66.21144739	23.77095257	52.20801135	20.34744171	1.324929629	5.408764567	4.7554569
Q1RBD0	TY-2482_chromosome	+	763840	764265	487.5245575	527.3977299	480.5213887	278.0984761	378.730474	287.0550793	0.644737889	2.777354669	2.3632749
B7L5L9	TY-2482_chromosome	+	764423	766024	346.9156581	338.2446484	385.778758	298.9881047	270.2549146	267.2040241	0.365624883	1.115268083	0.9018379
B7L5M0	TY-2482_chromosome	-	766042	766851	81.50352768	89.20928827	73.6967435	59.57809056	74.72583202	56.82495685	0.306506254	0.920251251	0.7354133
B7L5M1	TY-2482_chromosome	-	766858	767640	65.10628494	64.29578731	59.26218191	43.88945504	44.57210824	48.57683115	0.46188431	1.382297069	1.1337287
E6AKY5	TY-2482_chromosome	-	767640	769016	65.71037191	71.81106247	69.315602	54.21165146	37.19585038	47.34628093	0.536020936	1.831355264	1.5251562
B7L5M5	TY-2482_chromosome	-	769023	771122	102.9087192	135.2011205	124.1821977	48.06384541	40.89357706	46.02998281	1.368911589	9.805737787	8.8852219
B7L5M6	TY-2482_chromosome	-	771146	771769	64.87282761	81.17835371	70.57845951	12.15856841	9.089630253	5.606073472	2.871993619	22.51410437	21.168626
B7L5M7	TY-2482_chromosome	+	772228	772434	233.770708	312.4360555	270.6586376	56.89316457	103.2622544	26.07015078	2.008477116	12.24437153	11.20724
B7L5M8	TY-2482_chromosome	+	772991	774400	3748.887096	3622.237802	3918.588207	10549.78159	8760.963951	10679.99749	-1.390691279	3.543244965	3.0446679
B7L5M9	TY-2482_chromosome	+	774714	774947	131948.9959	106812.5083	108978.1624	61130.27048	177442.5648	52096.88567	0.286727263	0.224738553	0.1661481
B7L5N0	TY-2482_chromosome	-	775017	776018	884.6592185	853.2778311	931.70041	981.9314783	823.5002664	994.4521426	-0.047936481	0.139378257	0.1025575
B7L5N1	TY-2482_chromosome	-	776170	776583	100.5154393	173.730291	119.2636641	413.6639194	358.4448174	488.9919011	-1.795995811	12.30616614	11.263821
B7L5N2	TY-2482_chromosome	-	776599	777816	367.8746526	376.1696499	381.6364179	1586.248431	1103.708224	1658.614846	-1.945461135	19.48633411	18.214378
B7L5N3	TY-2482_chromosome	-	777816	779084	515.9794273	502.8016373	534.85601	1676.065752	1172.850228	1970.178209	-1.593424896	12.30466223	11.263365
B7L5N4	TY-2482_chromosome	-	779062	779805	333.3058409	398.4097861	381.6716339	989.939294	669.6001658	1054.689742	-1.306979989	8.169593455	7.333722
B7L5N5	TY-2482_chromosome	-	779818	781306	695.2897487	787.8299176	795.6946697	1220.126663	916.2233641	1576.673085	-0.673654006	2.862993238	2.4384179
B7L5N6	TY-2482_chromosome	-	781314	781679	233.7748909	287.8289612	292.0166376	241.5557997	185.4634343	322.882759	0.145608072	0.221112576	0.1636097
B7L5N8	TY-2482_chromosome	-	782519	782926	234.7704306	229.8215742	249.6749848	293.5468124	255.6274328	325.9878747	-0.259763978	0.820962031	0.6531182
B7L5N9	TY-2482_chromosome	-	782926	785979	1074.485256	1207.489828	1164.005593	2041.802578	1698.035964	2244.116623	-0.802915939	3.927732965	3.3935432

B7L5P0	TY-2482_chromosome	+	786368	787477	477.0109892	512.3406429	505.0924481	619.678438	691.6490284	718.1846672	-0.428274109	1.512907362	1.2460828
B7L5P4	TY-2482_chromosome	+	791083	791946	34.21665814	42.90795126	38.95893365	48.68041275	45.48391946	44.82357744	-0.310762723	0.522729213	0.4022316
B7L5P5	TY-2482_chromosome	+	791980	792735	174.3258157	172.2661276	152.2641264	252.9743067	290.2562516	382.2224308	-0.84541899	4.431238761	3.8584685
B7L5P7	TY-2482_chromosome	+	794491	795639	16.44712974	17.67510477	15.05203064	49.70927716	36.3349602	35.77588391	-1.383407422	4.991497427	4.3687807
B7L5P8	TY-2482_chromosome	-	795688	796596	29.03623437	35.24099114	30.97471742	28.18926184	36.53789785	20.21269433	0.090637622	0.21622953	0.1595948
B7L6H2	TY-2482_chromosome	+	798690	799976	29.28797758	26.04190321	24.24370159	32.51720648	12.57808131	16.12189503	0.277660262	0.565752877	0.4378464
B7L6H4	TY-2482_chromosome	+	800272	801969	50.69434718	73.9821096	44.43399344	61.25473497	54.57711233	52.77947829	-0.155480233	0.0125489	0.0081495
B7L6H5	TY-2482_chromosome	-	802032	804407	10171.54117	8851.312864	8928.86509	14476.61576	14183.98443	18240.55478	-0.691016055	1.198147713	0.9725719
B7L6H6	TY-2482_chromosome	+	805570	805570	856.0857939	950.3075397	982.5691798	1109.828418	998.2404389	1232.46253	-0.249190289	0.687025572	0.539296
B7L6H7	TY-2482_chromosome	+	805730	806773	351.4834456	360.2968275	333.269873	686.7557201	666.0893725	820.6051846	-1.045309123	6.553972941	5.8265934
B5YPZ3	TY-2482_chromosome	+	806881	807096	224.4288471	206.6361645	211.2080332	890.1118544	787.1613523	765.8736352	-1.938937299	19.34210693	18.073696
B7L6H9	TY-2482_chromosome	-	807106	808539	1637.809211	1543.457323	1594.443195	6215.877674	6055.45457	6396.468598	-1.949620153	6.755133234	6.0138179
B7L6I0	TY-2482_chromosome	-	808605	809315	200.839009	264.0198925	249.0170159	242.2735595	310.5249082	180.8997196	-0.115639797	0.066635023	0.0474726
B7L6I1	TY-2482_chromosome	-	809565	810026	496.6873362	446.2900465	453.4782113	340.3424165	551.7603018	334.6554369	0.205925068	0.38720401	0.2937062
B7L6I2	TY-2482_chromosome	-	810107	810853	669.2316536	700.5424696	699.2009964	781.4036728	813.5907816	807.7908042	-0.21569458	0.565475375	0.4377364
B7L6I3	TY-2482_chromosome	-	810856	811404	749.1708176	786.0356315	873.0602181	1140.7492	1103.871441	1126.186573	-0.472003802	1.958204708	1.634718
B7L6I4	TY-2482_chromosome	-	811470	812447	528.022181	500.1347669	506.3423026	402.9354405	496.0602324	434.2395019	0.22459484	0.502782846	0.3865114
D3QUK6	TY-2482_chromosome	-	812640	813032	213.3591808	367.270651	280.5206642	94.33852488	140.4032482	71.72379629	1.34143573	8.218298796	7.3784971
B2U362	TY-2482_chromosome	-	813046	814167	307.0720297	429.9776755	325.910886	146.8711751	137.4736617	92.72012685	1.334238096	10.23871576	9.3011807
C8T5I7	TY-2482_chromosome	-	814070	814378	158.4259627	196.2526272	146.893863	41.20031888	53.81328917	37.15998452	1.831136846	16.96360467	15.760625
B3Y106	TY-2482_chromosome	+	816915	817529	400.0169212	323.8402554	189.138681	68.48921366	239.1104864	70.70348241	1.23228449	3.538366035	3.0403884
B7L7X3	TY-2482_chromosome	+	820832	821788	1701.962417	1117.377769	379.3603377	210.9117004	819.0683653	133.0113489	1.374720159	2.810197809	2.3921496
B7L7X4	TY-2482_chromosome	+	821796	822107	195.6502286	123.7200547	50.80799515	51.18010163	135.2934101	28.75944832	0.703140685	1.287301898	1.0506977
B7L7X5	TY-2482_chromosome	+	822130	822558	20.01884026	23.20961328	25.25210279	29.34350594	29.06355028	39.11798025	-0.468970377	1.018516212	0.8181418
B7L7Y0	TY-2482_chromosome	+	826257	827123	55.07753125	64.48566844	72.9292867	23.01787887	19.04144426	24.84755553	1.537044921	8.340820436	7.4957224
B7L7Y2	TY-2482_chromosome	+	827150	828199	75.56141782	63.34948301	80.08135916	22.84557303	20.85913306	29.92134875	1.6612779	9.297922613	8.4057328
B7L7Y9	TY-2482_chromosome	+	831102	832979	115.2263422	96.81803262	118.336298	94.60200584	75.40927463	107.5223143	0.321400518	0.687787871	0.5396531
C8TT11	TY-2482_chromosome	+	836452	838581	91.19745643	92.78591079	92.41383467	90.03752281	77.27621786	93.26536426	0.086059017	0.1657653	0.1220541
C8UR26	TY-2482_chromosome	+	838584	839159	41.00946922	35.28014731	53.27535172	44.31620184	59.23566	51.34411225	-0.154848538	0.462349747	0.3533548
E7HLF3	TY-2482_chromosome	-	839209	839811	40.98822237	37.53869383	53.23668347	8.576748814	13.83842706	0.375467099	2.462803599	12.28396767	11.244758
B7L800	TY-2482_chromosome	-	840439	843252	47.72211959	55.97027943	51.47231346	59.20325854	49.06072612	60.3893634	-0.150370437	0.214392074	0.1587116
C8U9X1	TY-2482_chromosome	-	843397	843759	26.15043762	29.99201315	23.55775519	29.08690565	42.7410266	-0.192067055	0.305573982	0.2287462	
C8UBG3	TY-2482_chromosome	-	843817	844326	31.32860381	39.60846775	28.7910416	27.54159932	29.13890932	26.41647253	0.17909919	0.385412806	0.2923868
B7L804	TY-2482_chromosome	-	844329	845510	51.56473156	51.71835156	52.82507714	21.43918117	20.86116918	31.14365768	1.138160996	4.424961029	3.8530419
POCE57	TY-2482_chromosome	+	849273	849273	257.3517814	264.3703835	210.880362	146.2644429	139.1581082	181.1618828	0.638921954	2.704114791	2.3005239
Q1RE18	TY-2482_chromosome	-	849730	849989	4695.349049	3658.736184	3448.020825	1742.007504	4397.952548	1642.84088	0.626708588	0.847061243	0.6744294
B7L6I5	TY-2482_chromosome	-	850366	850662	4570.791949	4356.347422	4652.729322	4290.161212	5250.19286	4262.8179	-0.003989014	0.022554348	0.0152692
B7L6I6	TY-2482_chromosome	-	850670	853054	12865.03885	12912.72576	13057.46223	15785.97526	12099.91499	15401.74167	-0.162089071	0.157041844	0.1149545
B7L6I7	TY-2482_chromosome	-	853072	854057	2532.1336	2516.958019	2645.625908	4417.397131	3336.110364	4349.23201	-0.648930306	1.147538302	0.9305156
B7L6I9	TY-2482_chromosome	-	854505	854858	26047.32851	22794.57645	25333.25652	22450.70732	24783.48205	22260.33647	0.128474793	0.086849615	0.0635905
A1ABQ1	TY-2482_chromosome	+	854980	855588	44049.20401	41309.23449	45899.64611	39304.98191	39835.68242	39893.40031	0.170728439	0.133316209	0.0972348
B7L6J2	TY-2482_chromosome	-	855754	857679	22786.42604	25485.07623	27269.24143	33373.0832	26479.65972	31906.19777	-0.289356043	0.302459603	0.2261993
B7L6J5	TY-2482_chromosome	-	860440	861195	117.568347	98.91655063	105.5594035	250.7129974	285.8145992	251.4183342	-1.258816292	5.908605601	6.0689278
B7L6J6	TY-2482_chromosome	+	861482	862408	1065.743126	959.1527543	1039.893119	1245.034241	1127.45392	1479.668619	-0.275510542	0.945234445	0.7564463
Q1RB71	TY-2482_chromosome	-	862443	862817	190.542095	223.0840384	200.6337169	311.2086513	309.3925076	330.1360723	-0.659326793	2.795217265	2.3789097
B7L6J8	TY-2482_chromosome	+	862908	863765	815.8952904	740.4760648	863.1035964	1015.149372	1089.346888	1070.904953	-0.343990843	1.386526225	1.1373106
B7L6J9	TY-2482_chromosome	-	863812	864345	609.2948638	740.3969004	642.2884569	247.1945859	354.1912782	251.6006335	1.17872089	7.783641531	6.9798151
B7L6K0	TY-2482_chromosome	+	864492	865157	309.0302621	280.9915573	259.2107051	241.2773557	298.5435716	295.8761812	0.052276509	0.040338004	0.0276192
D3GVE1	TY-2482_chromosome	+	865311	865910	139.2129929	126.6706972	124.643103	71.35028203	84.68459229	77.65365455	0.76115607	3.766294342	3.2430348
B7L6K2	TY-2482_chromosome	+	866046	867434	6244.555271	5521.019092	5996.922776	815.6470284	788.0768205	824.8657361	2.901076767	13.17651871	12.095812
D8E437	TY-2482_chromosome	-	867444	867668	220.4995575	266.075289	208.3394143	42.91809427	33.59929849	38.18579627	2.50778077	30.51447099	29.004344
POCE57	TY-2482_chromosome	+	867700	868680	268.4645008	267.974033	264.7017491	160.9853556	141.9039671	160.4356246	0.78564478	4.075704645	3.528964
B7L6K5	TY-2482_chromosome	-	869735	869995	39.53589885	43.53257825	42.25952853	18.11583387	34.87551522	9.903513793	0.935578815	2.816649901	2.3971041
B7L6K6	TY-2482_chromosome	+	870178	872436	548.9740526	540.7602135	497.6196879	1082.714474	922.6317815	1479.319139	-1.095769111	7.125863137	6.3630437
B7L6K7	TY-2482_chromosome	-	872489	873244	121.9008701	106.9942863	130.9303902	197.3532193	162.8438449	163.3225665	-0.522975397	2.120464246	1.7781367
B7L6K8	TY-2482_chromosome	-	873260	874609	76.91270451	91.48243012	76.41742901	165.18801	131.8862968	138.2824491	-0.911944825	4.307688587	3.7437227
B7L6K9	TY-2482_chromosome	-	874717	875556	87.41214205	85.71466559	97.89391715	93.93685319	97.40714667	84.41217645	-0.013720861	0.028722958	0.0191988

B7L6L0	TY-2482_chromosome	-	875567	875914	53.89856557	47.27919508	52.84587498	44.56420975	51.94196352	41.01495328	0.185424087	0.3012471	0.225327
B7L6L1	TY-2482_chromosome	-	875968	877323	57.32421424	78.17202425	65.97519366	85.12071196	115.7327062	79.30121837	-0.545644869	1.451707187	1.1932448
B7L6L2	TY-2482_chromosome	-	877411	877728	90.05832037	132.3949542	126.3201104	147.0543531	211.4417538	85.16822185	-0.452591936	0.750244378	0.5933259
Q1RB56	TY-2482_chromosome	-	877752	878009	120.3214596	147.318966	107.2408755	167.9189202	225.878249	143.9034208	-0.62027143	1.773943807	1.4751916
B7L6L3	TY-2482_chromosome	-	878030	878365	3349.345957	4196.826879	3551.258051	2395.849401	3969.024371	2381.773944	0.288046091	0.448562572	0.3427952
B7L6L4	TY-2482_chromosome	+	878567	879391	883.100881	942.4817769	921.0172765	2194.9447	2050.334665	1936.774283	-1.202512666	7.903314387	7.0909241
D8AB29	TY-2482_chromosome	-	879481	879702	94.25657165	115.6748413	68.69063967	79.2347089	111.2127259	67.58969095	-0.024188837	0.15725802	0.1150176
B7L6L5	TY-2482_chromosome	+	879624	880508	364.0613149	418.8469101	374.2436817	240.8201759	253.8896964	274.8034517	0.570912196	2.416160264	2.0430465
D3GVF5	TY-2482_chromosome	-	880474	881109	92.61544242	121.0271857	82.10798925	49.71342737	52.76505501	59.02483223	0.791354863	3.711906696	3.1940108
B7L6L7	TY-2482_chromosome	-	881252	881734	175.0110178	167.8411421	172.3009948	124.985995	121.0669306	97.72442573	0.557710494	2.438287401	2.0617904
B7L6L8	TY-2482_chromosome	-	882067	883032	77.84825149	65.67824516	77.32916466	41.45147702	30.0205719	17.76102074	1.247374272	6.232320793	5.5257676
B7L6L9	TY-2482_chromosome	-	883028	884368	112.6932162	135.8022822	132.1355857	64.72983701	47.22869405	54.01989353	1.141448767	7.742395497	6.9427884
B7L6M0	TY-2482_chromosome	-	884368	885843	117.3292247	123.5476339	122.8119937	70.69879451	55.46489009	51.60586264	0.978381871	6.120239545	5.4213647
B7L6M1	TY-2482_chromosome	-	885843	886874	55.69325722	78.86401029	80.1714006	38.0222369	15.25371237	33.94856519	1.242287325	5.346361293	4.698163
B7L6M2	TY-2482_chromosome	-	886874	888091	73.295667	65.47326057	76.71401139	39.11913666	31.82948557	26.65314211	1.127945158	5.654573544	4.9855668
B7L6M3	TY-2482_chromosome	+	888537	889340	494.2929663	494.7249579	499.1270981	760.240327	869.1358804	838.0217401	-0.71146174	3.607928075	3.101482
D3GVG3	TY-2482_chromosome	+	889462	890217	84.53564862	98.43623725	66.18761976	27.98216912	17.18099247	22.40827419	1.755990732	11.67642292	10.667385
B7L6M5	TY-2482_chromosome	+	890225	890899	142.8723576	143.9568617	130.5392105	27.17599217	16.24110075	27.40156691	2.533649026	25.98402757	24.565231
B7L6M6	TY-2482_chromosome	+	890916	891620	145.1246811	148.8335747	128.4929228	41.39878679	43.72079355	35.75937171	1.755449115	16.41935115	15.226873
B7L6M7	TY-2482_chromosome	+	891623	892168	119.6964243	116.0385773	112.1269101	58.89422512	68.29007155	64.47073208	0.870220463	4.65999127	4.0651036
B7L6M8	TY-2482_chromosome	+	892181	893344	272.9829991	290.1191587	240.6817521	150.6432062	128.2678614	130.3810564	0.907298238	5.581895238	4.9203727
B7L6M9	TY-2482_chromosome	+	893365	894852	149.7717286	124.629432	128.5999707	94.93708953	111.9695048	110.4322743	0.393201779	1.063104691	0.8572303
B7L6N0	TY-2482_chromosome	+	894855	895505	62.05324205	70.8082811	54.49456727	76.54291244	96.54211628	84.26467536	-0.502738704	1.481036575	1.2189355
B7L6N1	TY-2482_chromosome	+	895575	896879	709.0463908	662.328271	647.5529635	119.1019312	112.8672792	92.45462799	2.604230478	3.214775397	3.608982
C8TSS4	TY-2482_chromosome	-	896894	897511	195.2838808	209.6594648	150.6814513	106.9570442	131.1783392	89.89505857	0.670479606	3.328825856	2.8513238
B7L6N3	TY-2482_chromosome	+	897598	898002	80.70591384	89.39148668	78.41801007	73.7512252	62.74216812	65.86073439	0.243146792	0.759946406	0.6020708
C8TSS6	TY-2482_chromosome	-	897974	898243	65.69030567	78.63174297	65.86797754	57.85624448	57.34402614	51.48772421	0.266324816	0.782621081	0.6208371
B7L6N4	TY-2482_chromosome	+	898479	898919	687.1616018	695.9438563	759.4270464	1130.431683	981.8898292	1031.511088	-0.553910509	2.419931797	2.0456932
B7L6N5	TY-2482_chromosome	-	899942	900979	61.11597935	87.34839988	59.7558255	58.4494928	66.52053672	47.73615744	0.132639835	0.495629736	0.3807242
B7L6N6	TY-2482_chromosome	-	901110	903116	1604.8846	1568.845893	1547.513243	1961.116005	1518.730194	2103.331571	-0.232834409	0.606517792	0.4724762
B7L6N7	TY-2482_chromosome	-	903124	904164	2084.109281	2256.077065	2204.527114	2380.712383	1792.630033	2716.256611	-0.067854858	0.082036228	0.0599801
D3GVH9	TY-2482_chromosome	-	904284	904847	1146.50018	1077.149449	1087.996356	1242.524855	1054.634178	1395.52239	-0.130515524	0.34659586	0.2613973
B7L6P1	TY-2482_chromosome	+	904993	906846	1481.354353	1586.498134	1577.328033	2344.448653	2271.448524	2498.231281	-0.614046785	1.754519674	1.4595374
B7L6P2	TY-2482_chromosome	+	907016	908029	232.5458811	229.6057674	239.0392498	397.2376388	349.3517607	467.9631406	-0.757833854	3.832552573	3.3041836
B7L6P3	TY-2482_chromosome	+	908043	908681	201.8396202	211.1388811	209.9584852	287.6043231	294.864487	284.2411849	-0.483803129	1.807106361	1.5034038
B7L6P4	TY-2482_chromosome	-	908780	910135	30.09134161	28.01203132	21.42944537	28.94367502	29.13684906	25.17781149	-0.115494795	0.070270839	0.0504117
B7L6P5	TY-2482_chromosome	-	910255	911010	75.53134921	88.3332819	62.30138719	119.9176433	127.5618947	61.40694675	-0.609566308	1.133053809	0.917753
B7L6P6	TY-2482_chromosome	-	911150	912127	39.32206986	53.25725639	53.01594961	75.19538934	72.86593883	47.9346401	-0.516294022	1.079735438	0.8717156
B7L6P7	TY-2482_chromosome	-	912140	913084	30.50183208	31.56364698	38.56051363	55.01352957	45.50688898	32.11064024	-0.437652918	0.876970594	0.7000698
B7L6Q2	TY-2482_chromosome	-	917861	918130	402.0255477	526.4922732	476.0533189	105.2065832	135.8510272	54.89445723	2.125397803	17.63798093	16.417968
B7L6Q3	TY-2482_chromosome	-	918175	918585	735.5351278	946.768856	917.8735132	247.0246213	291.3844909	170.4151512	1.794164959	15.06880701	13.929289
B7L6Q4	TY-2482_chromosome	+	918927	919919	64080.26876	55491.61167	55939.56172	37082.98482	42149.03995	45693.68861	0.542923983	0.306246378	0.4723343
D3GVJ4	TY-2482_chromosome	+	919985	920887	1369.132575	1690.296393	1334.711135	994.6969327	831.6128232	1395.045561	0.431593261	1.317928967	1.0773816
B7L6Q6	TY-2482_chromosome	-	920944	921795	615.3731884	593.4929127	705.4112973	734.8629263	649.6855366	808.8384909	-0.145122856	0.470536917	0.3600718
B7L6Q7	TY-2482_chromosome	-	921888	922631	2986.070059	2944.659708	3150.733585	3354.975167	3487.283653	3987.36311	-0.211273401	0.320551471	0.2409894
B7L6Q8	TY-2482_chromosome	+	923067	924998	1990.617397	2081.483672	2215.229022	4320.85663	3244.19134	4279.488002	-0.911264649	1.939108973	1.6186181
B7L6Q9	TY-2482_chromosome	+	925114	926394	476.3521385	466.6240053	485.9623495	969.6025795	739.7449401	931.3235744	-0.885708226	4.846428496	4.2347471
B7L6R1	TY-2482_chromosome	+	928200	929687	101.8129444	83.85969597	99.10662375	114.2462371	124.7344403	102.872301	-0.228860425	0.681619925	0.5349285
B7L6R2	TY-2482_chromosome	+	929733	930233	397.0050291	392.2734121	445.8686027	418.2215084	459.6195872	414.5443522	-0.039790171	0.121676089	0.0892864
D8B8Y4	TY-2482_chromosome	+	930330	930515	29.24884423	15.73099133	33.42379231	35.38811728	31.78060463	41.83888998	-0.301845533	0.927562241	0.7415576
B7L6R5	TY-2482_chromosome	-	930921	931739	150.4978166	129.5278335	129.2358586	76.82140398	81.02604543	71.21865914	0.842856588	4.475018397	3.8970201
B7L6R6	TY-2482_chromosome	+	931836	933014	99.30565578	110.5292956	111.6642141	172.9320184	134.5741539	169.5756602	-0.584302218	2.337423342	1.9729846
B7L6R7	TY-2482_chromosome	+	933072	933416	305.7616118	312.0671227	337.5217522	212.5605781	267.6774048	204.2096363	0.491012434	1.757373998	1.4618283
B7L6R8	TY-2482_chromosome	+	933444	933695	275.7407621	306.5472909	329.6708422	148.6730546	245.1122938	124.3527897	0.8037886	3.266299448	2.7653197
B7L6R9	TY-2482_chromosome	+	933878	934900	1195.802526	1169.670787	1174.515747	1020.3337	1215.91154	1036.864456	0.120888187	0.23148283	0.1716928
B7L6S0	TY-2482_chromosome	-	935173	935418	1242.746012	1517.910129	1231.755837	694.8840475	1276.274097	625.6509521	0.54977226	1.90602998	1.5902899
B7L6S1	TY-2482_chromosome	-	935433	935615	640.4052486	675.0264476	393.2967992	203.2184273	580.3313342	195.6914086	0.708391503	1.965192525	1.6409034

B7L6S2	TY-2482_chromosome	-	935648	936853	1304.413949	1416.815515	864.113714	382.6444834	895.9847996	391.5086314	1.012444177	4.291782704	3.7300414
A7ZMR8	TY-2482_chromosome	+	936876	937820	121.3257222	103.8164293	104.8240723	76.10817247	102.1323753	53.29716928	0.491089463	1.584479383	1.31074
B7L6S6	TY-2482_chromosome	-	938035	938670	261.6585557	290.2447912	259.3337523	186.7747847	268.6437416	191.0723819	0.301254204	0.910530254	0.7274364
B7L6S7	TY-2482_chromosome	-	938800	939720	124.2799695	113.6008744	106.7477342	176.1125122	183.892818	142.4751111	-0.573735418	2.120501307	1.7781367
B7L6S8	TY-2482_chromosome	+	940905	940905	114.2832739	130.6378615	120.7777013	96.71127377	82.7567683	89.49410134	0.400230043	1.504528754	1.2389338
B7L6T0	TY-2482_chromosome	+	942801	943922	77.8904275	70.03182576	69.18774026	40.90223263	25.31372763	45.64309738	0.977129644	4.0482242	3.5048217
B7L6T1	TY-2482_chromosome	+	943981	944943	73.437134	62.62535701	64.58623686	54.20427993	39.95662152	44.82614729	0.520454659	1.660397443	1.3772637
B7L6T2	TY-2482_chromosome	-	945003	946127	190.6621901	227.0953487	161.3022695	368.7989756	388.554265	457.5098984	-1.120616149	6.1076614	5.409262
B7L6T3	TY-2482_chromosome	-	946200	947882	399.4517696	353.8081672	376.9653233	947.565194	1029.310402	926.3343119	-1.338258744	10.99912852	10.026419
B7L6T4	TY-2482_chromosome	-	948090	948668	275.0272188	298.8760859	319.0703911	822.0306732	971.1085881	817.1858348	-1.542268542	12.50730379	11.457553
B7L6T5	TY-2482_chromosome	-	948711	949403	275.297614	225.8843635	280.1176707	529.7354656	537.7875722	649.5712592	-1.0404050066	7.026499253	6.271328
B7L6T6	TY-2482_chromosome	-	949464	951371	438.8211065	504.0319712	468.0668086	718.9072815	753.5026365	826.0190604	-0.71200306	3.268810525	2.7971926
A7ZMT0	TY-2482_chromosome	-	951407	951790	505.2570489	652.6270493	575.6889384	549.3845022	742.7738596	923.9922634	-0.124992069	6.12188457	0.0892898
B7L6T8	TY-2482_chromosome	+	952210	952566	232.2306299	322.551427	278.6070048	48.10500463	56.57908111	27.02497536	2.530146171	26.54571242	25.119363
B7L6U0	TY-2482_chromosome	+	952942	954300	186.7499624	232.9019894	200.6095479	356.9104456	410.4407729	440.5044989	-0.98206486	5.311160667	4.6654947
B7L6U1	TY-2482_chromosome	+	954307	954882	170.5547181	152.9621156	170.4022455	109.3047424	125.5785651	143.0913674	0.458103555	1.291627665	1.0530626
B7L6U2	TY-2482_chromosome	+	955069	956430	1377.688643	1114.486298	1310.636361	2477.09813	2380.64651	2682.378898	-0.922745082	3.738858459	3.2184468
B7L6U3	TY-2482_chromosome	+	956564	958159	111.7740258	69.76279663	97.11350257	64.83945151	80.18051908	62.07614416	0.521794599	1.268537724	1.0339104
B7L6U4	TY-2482_chromosome	-	958169	959722	682.7439479	634.772936	740.9881227	633.5298397	578.6778491	816.4477345	0.099516735	0.037474215	0.0254137
C8UBR5	TY-2482_chromosome	-	959713	959919	82.68037882	102.7965613	113.2339753	62.53365732	79.17379273	94.28514197	0.397935395	0.902487507	0.0892738
D7X960	TY-2482_chromosome	-	960023	960214	2205.349706	2246.030797	2183.991652	2749.503055	2014.730837	2368.144029	-0.140199448	0.118044724	0.0868836
B7L6U5	TY-2482_chromosome	+	960185	961153	12766.43394	11496.81409	12441.48745	23263.85188	14096.49688	19828.86192	-0.646845335	0.91166636	0.7281371
B7L6U6	TY-2482_chromosome	+	961219	962016	9531.985538	8797.296217	9616.388595	17572.67142	10259.70157	15305.71018	-0.631045321	0.905555537	0.7231864
B7L6U7	TY-2482_chromosome	+	962023	962880	9555.196498	8684.000584	9434.135054	14873.96353	10064.99691	13794.05757	-0.476268286	0.646054608	0.5048408
B7L6U8	TY-2482_chromosome	+	962938	963393	308.7845501	326.849624	314.8878804	671.5567555	483.0959813	615.6180613	-0.928864737	4.77146522	4.1655822
B7L6U9	TY-2482_chromosome	+	963583	963825	150.3771505	144.3837749	138.5130825	82.72164439	165.0539057	88.64717004	0.378025683	0.90174988	0.7203932
B7L6V0	TY-2482_chromosome	+	963825	964388	94.1805298	106.9784991	86.89718046	136.5621557	160.2834373	113.5701171	-0.585585637	1.855391121	1.5464873
B7L6V1	TY-2482_chromosome	-	964391	965197	232.7429889	187.0907943	219.2431125	457.6164318	528.8239672	431.7748081	-1.105472388	7.451633928	6.6713842
A1ABZ1	TY-2482_chromosome	+	965690	965936	3377.03449	3819.595592	3884.287324	3541.462819	5450.638197	2533.454372	-0.101685488	0.054019097	0.0382319
Q1RAW4	TY-2482_chromosome	-	966346	966651	360.9863577	459.2040715	379.4673209	303.7005862	465.3035067	265.0430027	0.135876719	0.443671374	0.338936
B7L6V6	TY-2482_chromosome	+	967062	967298	80.41914789	64.63870892	50.96880785	56.66214133	110.5036854	41.60792659	-0.124761899	0.114261962	0.0836117
C8UBS7	TY-2482_chromosome	-	967447	968235	618.9917076	793.8427426	638.2313703	1192.692407	1266.863261	993.6778553	-0.851663314	3.761687271	3.2387451
B7L7N0	TY-2482_chromosome	+	968412	969782	32.35999509	26.33061685	24.85673463	61.35413557	50.91868961	50.17318195	-0.975474831	3.714267005	3.1957435
B7L7N1	TY-2482_chromosome	-	969834	970712	2598.071349	2283.396987	2573.672374	2268.142053	2584.600325	2341.884886	0.094226103	0.053927512	0.0382319
B7L7N2	TY-2482_chromosome	-	970907	972952	3254.788195	2905.940817	2746.329915	9436.556812	8258.634871	9769.595389	-1.617355595	4.510005501	3.9283991
B7L7N3	TY-2482_chromosome	-	972975	973670	4087.927489	3401.165364	3491.818474	6807.518651	6682.468246	7439.643743	-0.890530482	1.860788272	1.5509144
B7L7N4	TY-2482_chromosome	-	973770	974318	1160.628658	1156.696402	1158.683832	1724.488124	1874.754278	1653.90433	-0.600242178	2.463250168	2.0833433
B7L7N5	TY-2482_chromosome	+	974394	975674	772.5698776	802.7851393	667.8260104	348.7567448	561.7043961	419.8464878	0.744718765	3.181447846	2.7202092
B7L7N6	TY-2482_chromosome	+	975646	978276	1345.27902	1472.633496	1338.168959	1487.459475	1391.412709	1577.27832	-0.121332673	0.206679663	0.1526391
B7L7N7	TY-2482_chromosome	+	978359	979795	205.1616967	197.3625537	142.0186259	273.7420483	238.3141957	335.0098626	-0.658125654	2.427169289	2.0520287
B7L7N8	TY-2482_chromosome	+	979916	980149	72.41706593	88.63643219	71.09751271	78.84465327	139.4763133	92.36550254	-0.457254583	1.164789943	0.9467198
B7L7N9	TY-2482_chromosome	+	980173	980445	99.29690346	133.8106854	92.71646515	39.68399317	65.75416325	35.99414847	1.091717284	5.645226569	4.9775499
B7L7P0	TY-2482_chromosome	-	980452	981105	109.8504058	122.8283022	108.804536	59.81125686	67.288596	43.91918197	0.908856411	0.905870296	4.4663141
ryeA	TY-2482_chromosome	+	981202	981450	609.2086956	771.3822274	705.1463162	332.8147518	798.7048714	258.9422598	0.527123605	1.321807505	1.0807632
B7L7P2	TY-2482_chromosome	-	981504	981842	756.7317207	767.9081257	810.8615461	965.8008552	1197.738356	963.2592325	-0.409718907	1.509966017	1.2434931
B7L7P3	TY-2482_chromosome	-	981858	982727	1716.241876	1697.907365	1799.876964	2249.237752	2270.573381	2272.08347	-0.367268822	0.838026002	0.6662429
B7L7P4	TY-2482_chromosome	-	982734	983105	1115.77258	1097.540437	1106.524924	1118.979502	1120.253044	1178.722875	-0.030408413	0.07683168	0.0557756
B7L7P5	TY-2482_chromosome	+	983244	983471	145.2055131	146.0201719	115.8008931	80.55982927	110.2898255	70.17858964	0.585079833	2.442949813	2.0661181
B7L7P6	TY-2482_chromosome	+	983576	984229	204.3890386	178.1410926	164.1031663	161.7859606	202.9847902	205.0576856	-0.021275628	0.10360691	0.0763134
B7L7P7	TY-2482_chromosome	+	984256	984915	253.5072259	245.1843743	257.5225778	293.5072259	287.5512869	302.5469546	-0.207371875	0.59436746	0.4620069
B7L7P8	TY-2482_chromosome	-	984918	986975	505.3212114	594.2659183	573.8007813	731.7020935	637.8725549	727.4514619	-0.353274179	0.962719964	0.7711304
B7L7P9	TY-2482_chromosome	-	987187	987843	319.1083498	348.0437606	391.1443856	267.6970831	304.8973315	298.596917	0.312232822	0.772503204	0.6118815
D6JAC7	TY-2482_chromosome	+	988050	988253	664.894045	606.1330835	646.3732793	485.6163039	692.7480645	470.0763689	0.240388074	0.506551029	0.3894082
B7L7Q0	TY-2482_chromosome	-	988173	988538	1623.5225056	1579.561124	1700.195141	1358.406278	1495.482245	1442.099645	0.121909805	0.186072482	0.1372806
B7L7Q1	TY-2482_chromosome	-	988596	988883	1177.877574	1115.862025	1156.719445	814.5293589	1246.091554	823.9783113	0.278221243	0.626073417	0.4882581
B7L7Q2	TY-2482_chromosome	+	989017	990192	118.0671283	140.1192897	111.3149521	315.2382987	348.6339689	268.7565405	-1.419617008	9.42012325	8.5234562
B7L7Q3	TY-2482_chromosome	-	990254	990892	1479.282217	1383.767063	1422.104275	2081.256842	1841.876009	2077.276222	-0.474727032	1.78017781	1.4802882

B7L7Q4	TY-2482_chromosome	-	990932	992740	718.7123988	657.747088	720.3760356	727.0643985	633.3129067	751.0600752	0.020416045	0.015120126	0.0098455
B7L7Q5	TY-2482_chromosome	-	992978	994450	2982.268892	3180.966475	3177.74309	6036.663394	5163.529166	6505.455954	-0.919380599	1.878707799	1.5666922
B7L7Q6	TY-2482_chromosome	+	994788	995654	646.1526302	694.3250341	563.4960395	640.2749291	678.9364769	604.0471923	-0.071281663	0.026388947	0.0176422
B7L7Q7	TY-2482_chromosome	+	995785	997224	2130.68983	1970.977053	1966.068917	3227.079696	2768.252049	3825.359723	-0.659027447	1.294830923	1.0559361
B7L7Q8	TY-2482_chromosome	-	997361	998329	624.4757352	600.5028461	604.7219658	908.43055	845.4268916	793.5172707	-0.493312181	1.793469523	1.4914869
B7L7Q9	TY-2482_chromosome	-	998452	999771	616.2082192	595.5294318	627.9239822	2118.035374	1895.577351	2089.148755	-1.719595491	15.85061676	14.676177
B7L7R0	TY-2482_chromosome	-	999790	1000719	684.2264565	703.1225276	689.9069444	1163.059131	1176.705275	1118.379611	-0.74787641	3.939951877	3.4044579
B7L7R1	TY-2482_chromosome	+	1000798	1001550	588.6753733	485.9137118	577.1539224	431.2419291	472.3240255	486.6692966	0.319877676	0.658005492	0.5146661
B7L7R2	TY-2482_chromosome	+	1001550	1002332	377.7493642	338.2976393	359.8070198	455.7669479	479.6374516	418.5821204	-0.320204625	0.984967378	0.7898131
B7L7R3	TY-2482_chromosome	-	1002485	1003492	954.9287631	999.1882424	965.8733216	1445.45396	1392.350266	1456.364446	-0.567413409	2.252674546	1.8956598
B7L7R4	TY-2482_chromosome	-	1003504	1004112	653.4346636	748.8588521	713.7214649	965.4338529	912.7508132	945.9404822	-0.445340831	1.515705922	1.2487054
B3Y0L8	TY-2482_chromosome	+	1004288	1004986	74.24951549	69.15204859	54.3736812	55.59766445	86.75279006	38.8750131	0.061646427	0.167885444	0.1303237
B7L7R6	TY-2482_chromosome	-	1004994	1005512	1341.531811	1470.098267	1348.75195	1829.073843	1729.988164	1714.339885	-0.380452191	1.060974102	0.8552525
B7L7R7	TY-2482_chromosome	-	1005550	1006287	2470.734654	2596.546452	2718.299596	4397.598757	3683.797374	4324.32593	-0.673448672	1.20860627	0.9811067
B7L7R8	TY-2482_chromosome	-	1006319	1006759	939.9239319	938.3001712	1061.875793	1706.333466	1365.866956	1744.29266	-0.686774139	3.157984256	2.6983295
B7L7R9	TY-2482_chromosome	-	1006764	1008533	3385.37389	3451.914766	3665.075015	8941.572448	6822.522198	8801.281249	-1.222140885	2.822059908	2.6020138
B7L7S0	TY-2482_chromosome	+	1008843	1009406	111.4602838	115.3294164	99.45589086	125.2633808	142.9266089	129.0181994	-0.308530227	0.811625996	0.6458778
C6V226	TY-2482_chromosome	+	1009764	1010009	48.5468263	57.84684441	44.6392253	9.918639721	21.0319492	19.52460435	1.58768975	7.02165805	6.267028
B7LEU8	TY-2482_chromosome	-	1010554	1011246	39.9783052	62.66839115	56.94259877	28.28823658	15.27295499	38.76171195	0.934239441	2.871008389	2.4451665
B7LEU7	TY-2482_chromosome	-	1011171	1012706	52.00105702	82.24807191	61.94230713	18.03185762	13.48160733	37.11318326	1.510530094	6.146092222	5.4433952
B7L8N6	TY-2482_chromosome	-	1013528	1016920	105.3125685	127.3311471	104.7861673	80.89579432	68.17860018	80.16981736	0.495709439	2.11642639	1.7745173
Q1RCC4	TY-2482_chromosome	+	1018292	1019095	24.54879099	32.11264458	24.93908097	34.78867256	20.73129809	49.22311762	-0.377884495	0.563166562	0.435938
C8UEI9	TY-2482_chromosome	-	1019325	1021934	149.3667166	179.3364539	165.7125043	73.00173944	48.96170895	86.30380128	1.234194113	7.857352207	7.0040398
A1AAL5	TY-2482_chromosome	+	1022113	1023447	121.7928166	131.1539413	129.4216165	126.7229261	112.7649084	140.5282198	0.013271845	0.06827873	0.040251
D3H3E3	TY-2482_chromosome	-	1023946	1024518	31.42839024	28.90024877	31.032222	28.56633161	28.1205407	45.42879403	-0.075603176	0.202214255	0.1493575
B7L470	TY-2482_chromosome	-	1025317	1026342	96.29517111	101.0140191	117.13721	161.5144779	132.7352878	192.9402626	-0.581629349	2.555830332	2.1657641
D3H3D9	TY-2482_chromosome	-	1026403	1026747	25.39517196	21.77869879	28.57824472	42.85989733	28.05757733	47.00832719	-0.571924641	1.501752442	1.2367007
B7L468	TY-2482_chromosome	-	1026787	1028289	57.43187108	59.76577138	68.89599681	80.97002623	49.84892359	92.86906119	-0.225605985	0.515327405	0.3964364
C8TUI5	TY-2482_chromosome	-	1028282	1029871	150.4328476	134.5844785	136.5627589	82.20924953	99.16135438	129.6548399	0.523170479	1.431110465	1.1764275
B7L465	TY-2482_chromosome	-	1030061	1032028	70.71499615	96.59292771	90.57476156	61.70752336	63.71715553	59.3079923	0.430721744	1.503932992	1.2385134
A1AAK5	TY-2482_chromosome	-	1031961	1032746	32.59335182	43.30023411	45.82058108	11.30972899	21.95181957	18.34281038	1.272882174	4.307068623	3.7435894
B7LES3	TY-2482_chromosome	+	1035327	1035638	97.28878352	85.93920151	94.42931741	83.10974461	121.2400249	74.14634406	0.015314941	0	0
B7LES2	TY-2482_chromosome	-	1035654	1036457	68.09479888	66.93568458	62.57921744	47.31938892	56.5510805	33.4208551	0.476106556	1.530080176	1.260786
B7MPX6	TY-2482_chromosome	-	1036831	1038711	164.4124139	158.2298378	193.0945942	104.244633	95.45772613	132.4219157	0.711965757	2.738527886	2.33009
B7MV04	TY-2482_chromosome	-	1038847	1039137	3194.616307	3341.406818	1010.611862	181.3314678	194.3067076	153.8863188	2.680738295	10.34590107	9.4025588
C6USM2	TY-2482_chromosome	-	1039467	1040522	60.29400887	87.75366032	67.19069157	48.31538202	64.72260815	50.176861	0.313811173	0.933685266	0.7472065
B7NVG6	TY-2482_chromosome	-	1040677	1040910	74.89531279	65.19819479	68.59578473	29.52130082	67.67206978	33.34398072	0.720016971	1.889715028	1.5761351
B3HVA3	TY-2482_chromosome	+	1041142	1042065	109.0854847	129.8570727	104.0713219	229.4596464	202.2973113	6.649095227	-0.628644815	0.285663566	0.213334
B3IDN1	TY-2482_chromosome	+	1042055	1042600	142.094075	141.6886615	137.243343	65.61564213	121.600202	9.185354133	0.983458991	2.183270809	1.8346185
B3WIT4	TY-2482_chromosome	-	1047848	1049038	607.2313144	488.5225001	266.951024	114.2627044	274.5477959	64.38148865	1.486251747	5.1084236	4.4772424
C8UKW2	TY-2482_chromosome	+	1049943	1050632	766.5512266	775.0702269	719.4973295	383.3597627	487.9441343	337.2406953	0.873738527	4.595547084	4.0069779
Q1R2C0	TY-2482_chromosome	-	1050735	1051064	591.9141681	590.1884266	325.8524408	87.6593176	285.6068314	57.83177992	1.687677699	5.848112934	5.1637393
P76513	TY-2482_chromosome	+	1051766	1052587	86.74854026	96.63694086	75.60779715	70.25996079	72.82479272	65.92466044	0.244197251	0.764828804	0.6059941
B3WUG8	TY-2482_chromosome	+	1055098	1055853	48.39973919	58.66987	57.53576206	35.10478576	27.24614753	27.78765363	0.810969208	3.159339316	2.6990859
B6M1E3	TY-2482_chromosome	+	1056342	1056575	32.86872861	29.37978594	36.48478573	31.06309374	33.77132342	17.67786894	0.24257937	0.399392922	0.3031282
B7MPT9	TY-2482_chromosome	+	1056622	1057941	64.9276377	681.5695056	552.9110432	367.6447926	463.3792723	308.357956	0.659438903	3.105937494	2.6526077
E1RYP9	TY-2482_chromosome	+	1057926	1059141	459.2339286	440.6468665	427.0453895	310.5140913	346.79808076	307.9912311	0.457980999	1.643811433	1.3628637
B7L7S3	TY-2482_chromosome	+	1059185	1059925	219.8246044	219.2281612	226.4899173	405.821539	367.5819757	447.0699126	-0.853717474	4.7164646	4.115545
B7L7S4	TY-2482_chromosome	+	1059925	1060893	315.2343285	188.9605966	283.4215492	450.2827694	447.6809404	556.1298856	-0.734261807	4.028348048	3.4862737
B7L7S5	TY-2482_chromosome	-	1061065	1063491	226.4622202	259.2532464	234.2937317	230.0011201	213.8456277	205.3916119	0.096314393	0.331012479	0.2488138
B7L7S7	TY-2482_chromosome	-	1065007	1065750	838.4539822	806.0100457	712.0981299	1037.55348	1165.852435	956.7232465	-0.452011285	1.535339042	1.265691
B7L7S8	TY-2482_chromosome	-	1065767	1066330	227.2772745	227.0881156	242.3988743	545.1049162	527.8111604	534.1738077	-1.19661014	8.473842663	7.620677
B7L7S9	TY-2482_chromosome	+	1066546	1068276	1092.654472	1007.845652	1057.019585	1774.363459	1692.632897	2006.062583	-0.75611918	3.941023204	3.4048756
B7L7T1	TY-2482_chromosome	-	1069067	1069456	24.5650679	26.01220585	28.51203363	60.40308736	83.84224374	67.21809464	-1.386000433	7.400901363	6.6246491
B7L7T2	TY-2482_chromosome	-	1069459	1071534	137.8194886	118.9993117	111.9797368	383.2897057	414.9783276	443.1984391	-1.721121873	16.15248584	14.973147
B7L7T3	TY-2482_chromosome	-	1071530	1072675	40.55620954	29.84065523	36.30089489	108.1527433	132.045886	108.0693223	-1.644100213	12.64209916	11.589135
B7L7T4	TY-2482_chromosome	-	1072880	1073521	331.4306048	277.0162021	314.9651126	494.305324	412.086349	676.78188	-0.682961159	3.24308223	2.774908

B7L7T5	TY-2482_chromosome	-	1073535	1073921	212.2400122	236.5369379	230.4461383	347.9576558	253.6913112	472.7661211	-0.627330211	2.340568707	1.9754688
B7L7T6	TY-2482_chromosome	-	1073939	1074985	195.6518206	255.9637066	225.1141134	349.2946545	281.0466507	438.8122441	-0.679155504	2.525153722	2.1378819
B7L7T7	TY-2482_chromosome	-	1074991	1075848	210.8684419	213.7654208	208.5744936	387.5190679	309.2792549	435.0818466	-0.826895323	4.074645785	3.5282401
B7L7T8	TY-2482_chromosome	-	1075870	1077468	483.0497815	537.215855	453.3370366	956.7826774	841.6908838	1110.003733	-1.003108827	5.665818596	4.9954858
B7L7T9	TY-2482_chromosome	-	1077517	1079175	694.6580041	738.9588558	714.33981	1253.5178003	1087.445065	1194.567508	-0.741801267	3.756680803	3.2350057
B7L7U0	TY-2482_chromosome	-	1079323	1079823	331.288665	339.7072293	315.4512738	475.7622215	584.3102417	557.7547462	-0.704410263	3.279681835	2.8072925
B7L7U1	TY-2482_chromosome	-	1079847	1081808	740.3251146	777.4498324	718.8649139	1580.529906	1594.361833	1877.089994	-1.168445511	7.945198673	7.1290858
B7L7U2	TY-2482_chromosome	-	1081816	1082739	278.8438222	301.0155126	290.480565	327.5922536	335.7972845	349.8853138	-0.224343206	0.561520678	0.434802
B7L7U3	TY-2482_chromosome	-	1082739	1083623	483.1185453	449.0390488	492.6128039	348.5689453	408.6986684	335.7117395	0.40422044	1.203008169	0.9763112
B7L7U4	TY-2482_chromosome	-	1083753	1084328	177.1651439	190.18485	178.8507266	232.2445234	243.8655159	277.3474591	-0.455413028	1.655590222	1.373004
B7L7U5	TY-2482_chromosome	-	1084334	1084690	124.7151879	129.4383149	151.4866169	201.9957363	233.9154891	230.1642884	-0.668467967	3.404257046	2.9201332
B7L7U6	TY-2482_chromosome	+	1085460	1085885	340.9097391	363.0364993	361.8341232	342.8243881	402.3823145	267.6176656	0.034255786	0.133067463	0.0972348
B7L7U7	TY-2482_chromosome	-	1085898	1087319	847.9959341	847.7797178	886.7549673	1840.948846	1656.249388	1720.879709	-1.017976536	6.094885215	5.3969607
A1AC54	TY-2482_chromosome	-	1087297	1088151	561.7233126	513.2004934	522.8241529	602.8593835	566.0016289	631.3807195	-0.151870268	0.397282985	0.3014184
B7L7U9	TY-2482_chromosome	-	1088264	1089250	82.29793962	75.41734978	81.22387032	73.86434623	57.25418055	63.23082054	0.293938787	0.785181812	0.6231806
B7L7V0	TY-2482_chromosome	-	1089265	1090776	98.86035499	64.86587582	105.3616762	95.08310307	70.9115393	68.70892788	0.26267231	0.419103894	0.3193058
B7L7V1	TY-2482_chromosome	-	1090849	1091835	36.46441398	41.23642225	44.40645996	77.38640115	50.84281627	59.34220887	-0.661087448	1.923002108	1.6039416
B7L7V2	TY-2482_chromosome	+	1092632	1093132	363.5642376	332.7514791	328.660692	345.210599	438.7780765	329.2206061	-0.11493389	0.24465772	0.1814692
C3T592	TY-2482_chromosome	+	1093217	1093486	166.1769861	144.9787318	146.4341644	71.70533291	106.5901891	93.35994866	0.807805997	3.48843506	2.9952234
B7L7V6	TY-2482_chromosome	+	1094424	1094918	1034.786335	1288.855602	1106.432847	3341.795397	4935.489511	2692.460676	-1.75646244	5.185944177	4.5494392
B7L7V7	TY-2482_chromosome	-	1094962	1095198	136.6324296	175.9769185	146.4408636	78.67610997	176.0348506	86.08666475	0.384182144	1.01761698	0.8175935
B7L7V8	TY-2482_chromosome	+	1095388	1096596	137.5633572	136.8249363	141.9828202	203.2311782	249.4072351	239.3703457	-0.699001634	3.55924902	3.0585674
B7L7V9	TY-2482_chromosome	-	1096664	1097326	814.8984536	939.884354	979.9823103	984.3850421	984.6637036	1002.492156	-0.124087942	0.274251932	0.2050791
leuZ	TY-2482_chromosome	-	1097522	1097608	497.4512338	503.8286241	389.7286324	303.9826677	669.3396227	256.1663046	0.121544984	0.281251698	0.2099536
cysT	TY-2482_chromosome	-	1097621	1097694	831.7343533	777.9852839	716.7694903	532.5665108	1124.410491	439.0462796	0.132673078	0.242661765	0.1799132
glyY	TY-2482_chromosome	-	1097749	1097824	874.9801774	896.0036824	819.1758363	608.0998991	1313.74407	457.5794703	0.083843392	0.185503004	0.1368175
B7L807	TY-2482_chromosome	-	1097979	1098524	1110.515826	1092.519811	1134.312584	972.9946897	1222.311194	990.8640113	0.08133787	0.126440799	0.0928189
B7L8S5	TY-2482_chromosome	-	1098584	1100413	3159.585535	3306.9219	3069.302652	2766.758436	2477.98315	3051.964312	0.195870713	0.24201204	0.1796661
B7L8S6	TY-2482_chromosome	-	1100413	1101066	2137.888888	2397.70014	2397.395567	1314.221282	1407.938806	1041.125653	0.835933839	4.552085766	3.9670935
B7L8S8	TY-2482_chromosome	+	1101525	1101746	408.4627694	353.8804503	374.9516856	122.273465	236.1186794	95.58459251	1.333349059	6.464875262	5.7435487
B7L8S9	TY-2482_chromosome	-	1101820	1102539	567.5033309	590.0214815	616.0932856	350.5588294	476.1917801	263.8305016	0.673483712	2.757055852	2.3459122
B7L8T0	TY-2482_chromosome	-	1102772	1103521	476.5350529	423.0459125	417.7612856	513.0182775	442.2061596	511.676351	-0.145913816	0.35259367	0.2665839
B7L8T1	TY-2482_chromosome	-	1103521	1104186	448.0662317	377.5499389	439.1440635	530.0413875	435.7948851	575.9379709	-0.228307817	0.770946943	0.6108759
B7L8T2	TY-2482_chromosome	-	1104204	1105187	855.6205265	821.6771689	762.3630528	888.0535456	655.9812397	961.3231434	-0.037297655	0.06891592	0.049455
B7L8T3	TY-2482_chromosome	-	1105295	1106092	2899.38323	2892.601006	2778.819828	1135.704376	980.9799508	1023.634715	1.422727113	7.407201169	6.6303801
D3GXH3	TY-2482_chromosome	-	1106183	1106767	110.6405868	108.6340821	115.6035226	177.2667041	178.3615729	180.243089	-0.662185488	3.241233192	2.7736179
B7L8T5	TY-2482_chromosome	-	1106780	1107496	329.7784688	319.9024808	338.087083	271.7708514	269.3391946	299.8040614	0.261013582	0.607431775	0.4732606
B7L8T6	TY-2482_chromosome	-	1107663	1107950	2128.380676	2035.311224	2073.100645	2934.731376	2961.268219	3370.377913	-0.540299587	0.983263935	0.7884952
B7L8T6	TY-2482_chromosome	-	1107926	1108675	4982.807974	4976.75916	5139.302466	8469.616861	8121.224141	10141.71264	-0.788604848	1.493723269	1.230228
B7L8T7	TY-2482_chromosome	+	1108923	1110335	786.6856532	798.5587775	796.8856876	1520.326121	1367.731203	1620.647654	-0.913291902	5.060592052	4.4330587
B7L8T8	TY-2482_chromosome	+	1110354	1110761	180.9417937	175.7222946	189.5698233	432.5272525	439.4991638	537.7202385	-1.315322089	10.16833887	9.2332691
B7L8T9	TY-2482_chromosome	+	1110764	1111126	122.6905561	118.6295306	114.7672356	226.9464057	237.4804126	285.1422464	-1.039346	6.749012389	6.0082213
B7L8U0	TY-2482_chromosome	+	1111207	1112691	955.4298707	1227.283166	1134.99424	1934.681932	1902.896604	1973.397198	-0.850265543	4.053514191	3.5094461
B7L8U1	TY-2482_chromosome	-	1112731	1113141	780.0366996	759.9712788	735.3853687	530.1930067	744.5729453	585.6224084	0.305317654	0.793557188	0.6303105
B7L8U2	TY-2482_chromosome	+	1113328	1114530	1821.053936	1559.956797	1871.941898	83.41441993	72.72357125	90.57095921	4.472294792	80.12320301	77.639949
B7L8U3	TY-2482_chromosome	+	1114530	1114760	471.8521588	426.4514001	524.5038966	21.04897085	25.58857215	13.61728022	4.562217055	66.85518895	64.658241
E6BEB6	TY-2482_chromosome	+	1114872	1115366	85.6120555	60.81313057	65.13824678	103.3162421	21.34389614	1.482246244	1.82246244	7.856618198	7.0479188
B7L8U6	TY-2482_chromosome	-	1116287	1117081	20.62603117	32.08253894	28.49549278	33.48130493	35.52080829	30.43090175	-0.365201977	0.529886835	0.4088822
B7L8U7	TY-2482_chromosome	-	1117094	1117642	55.24923503	59.13105032	58.77979105	66.97148826	50.01994028	38.67774362	0.069403982	0.253770304	0.1887067
B7L8U8	TY-2482_chromosome	-	1117814	1118323	114.2202289	154.5418442	111.9247752	52.74007562	94.02810512	46.6320407	0.871133316	4.041970945	3.4992331
E9UHF9	TY-2482_chromosome	+	1118243	1118557	63.4031775	78.5466051	66.57142366	40.69239002	81.24772041	51.55339452	0.245540745	0.495170903	0.3805133
B7L8U9	TY-2482_chromosome	-	1118490	1118801	42.22973607	78.24384161	48.56652838	60.031055	91.18834949	60.84067986	-0.483752696	0.654575021	0.511983
B7L8V0	TY-2482_chromosome	+	1119016	1120671	161.6032051	142.707636	158.4963596	466.5223811	516.8710656	633.6703553	-1.722798175	16.0703545	14.892451
B7L8V1	TY-2482_chromosome	+	1120667	1121659	162.4758384	135.0102335	141.8330213	369.261306	432.2552759	516.5833893	-1.501752902	12.14061968	11.109663
B7L8V2	TY-2482_chromosome	+	1121655	1122338	73.65480435	104.2738184	99.88386776	226.8519825	231.9791538	320.4104702	-1.475435517	10.39347838	9.4467824
B7L8V3	TY-2482_chromosome	+	1122341	1123711	104.9484424	92.76245659	78.1733766	310.0754364	407.745263	431.2085959	-2.019365399	19.09968517	17.840013
B7L8V4	TY-2482_chromosome	+	1123733	1124173	23.36709777	12.54304181	21.91566204	90.75606498	108.2594995	141.4981085	-2.362341742	19.41985857	18.149679

B7L8V5	TY-2482_chromosome	+	1124173	1125297	66.61971061	55.47696782	67.4600792	258.8116846	278.3620706	442.4096424	-2.22864103	20.49115721	19.189746
B7L8V6	TY-2482_chromosome	+	1125405	1125866	66.48973949	71.74780993	67.27985645	253.582944	333.1127262	361.4354535	-2.167864853	21.26301226	19.95002
B7L8V7	TY-2482_chromosome	+	1125874	1126875	124.8750615	119.1137263	128.8106545	588.6916444	632.4314524	802.0273027	-2.369755704	26.18246435	24.761165
B7L8V8	TY-2482_chromosome	+	1126875	1127285	64.45972253	61.5164719	51.17318316	308.5059724	327.6219423	332.7969683	-2.462972409	27.41076137	25.971524
B7L8V9	TY-2482_chromosome	+	1127291	1127653	38.35640874	29.36486061	30.86842169	146.137093	177.5144529	167.0554236	-2.257649185	24.29087827	22.89635
B7L8W0	TY-2482_chromosome	+	1127656	1128390	34.47707716	33.37847499	29.51195246	129.6224213	171.1759673	153.9137148	-2.209597051	21.44936741	20.128478
B7L8W1	TY-2482_chromosome	+	1128403	1128669	11.28481834	13.98440781	6.880746561	51.04641892	60.11694677	52.72226414	-2.452854472	12.94897803	11.878099
B7L8W2	TY-2482_chromosome	+	1128681	1129463	18.09987042	11.72456722	15.83676484	53.41566686	48.22590622	42.35961568	-1.608325282	7.775404322	6.9727876
B7L8W3	TY-2482_chromosome	+	1129756	1130376	17.85980832	20.31668251	19.13400182	94.91619255	97.48662358	54.67353484	-2.19285346	12.38995905	11.344455
A1ACA1	TY-2482_chromosome	+	1130502	1130774	129.0581732	195.0157282	137.0333349	61.17369491	104.873929	69.99346466	0.866866017	4.299727398	3.7372918
Q1RAI7	TY-2482_chromosome	-	1130757	1131104	565.2137051	615.4682988	627.3144349	260.9379646	391.5305321	266.1128258	0.978669819	5.220503329	4.580274
dsrA	TY-2482_chromosome	-	1131061	1131147	100.912088	100.7601681	105.0183248	28.94933461	30.06478175	23.92837303	1.868429903	14.9321816	13.797881
Q8Z5R0	TY-2482_chromosome	-	1132026	1133852	645.3355607	697.2905	620.4450586	386.4432662	460.5157587	470.8233276	0.575018007	2.288854966	1.9292345
B7L8X1	TY-2482_chromosome	-	1134287	1135201	350.3869747	457.3478179	444.5008059	368.9158299	312.9108957	480.8826207	0.1151372	0.198133091	0.1462425
B7L8X2	TY-2482_chromosome	+	1135374	1136291	61.3543978	72.61022633	47.03669021	129.9521192	108.1652729	160.0144295	-1.199568588	6.263286898	5.5552788
B7L8X3	TY-2482_chromosome	-	1136286	1136753	119.5335091	131.0435658	128.1004518	168.5496584	179.2620719	198.4545189	-0.517030612	2.132030991	1.7880258
B7L8X4	TY-2482_chromosome	-	1136737	1138152	474.166665	431.1491875	478.7486806	973.9015086	940.9612703	1001.127803	-1.041221835	7.089090888	6.3301124
D3GXL0	TY-2482_chromosome	-	1138222	1138950	376.2265476	343.3686159	365.1075848	305.7562491	361.3414176	339.4240615	0.14665083	0.230077445	0.1706149
B7L8X6	TY-2482_chromosome	-	1138957	1139319	183.4000315	141.0387249	174.3951284	41.33912811	68.34585933	68.1063413	1.619981788	10.60856599	9.6499241
B7MWF2	TY-2482_chromosome	+	1139815	1140941	105.3179803	113.2977966	116.2838266	40.7856635	68.40242516	55.25976144	1.064654336	5.323858078	4.6773497
E9XVB1	TY-2482_chromosome	+	1140996	1141343	118.9579755	111.2363091	113.5059463	92.86913897	91.97798946	63.67737549	0.428379217	1.620162561	1.3424734
D3GUS1	TY-2482_chromosome	-	1141269	1142417	300.7607251	261.1623989	279.2364397	218.4956024	181.0729077	158.2656618	0.569890153	2.380411257	2.0099852
B7LDT8	TY-2482_chromosome	+	1142491	1143372	124.7823099	119.5843251	146.2065901	107.515741	91.00244582	71.52520831	0.514583763	1.945164454	1.6234777
E1U309	TY-2482_chromosome	-	1143884	1144578	187.6817085	207.5004193	170.7235792	78.03459543	85.57531766	79.01494516	1.175225662	8.815685344	7.9459204
B7L8Y4	TY-2482_chromosome	+	1144664	1145512	202.5369802	228.5193223	211.2141757	237.3150424	187.3661557	226.2038394	-0.058298905	0.036058526	0.0242914
B7L8Y5	TY-2482_chromosome	-	1145616	1146971	407.5282685	422.2427925	406.6392968	233.4337427	268.6716358	124.6277959	0.89410929	4.287880035	3.7264855
D3GXL6	TY-2482_chromosome	-	1146974	1147690	320.1811796	296.5806631	289.0345514	87.95535838	105.6894398	71.49132838	1.751050427	15.59928306	14.438248
B7L8Y7	TY-2482_chromosome	+	1147775	1148185	45.92497423	38.65059411	29.91407994	28.36043382	41.23491668	7.493419163	0.452233171	0.954022354	0.7643515
B7L8Y8	TY-2482_chromosome	+	1148297	1149298	78.60024821	63.46097555	80.04120169	60.28612966	57.26997839	72.07586157	0.312916911	0.538299755	0.4156388
B7L8Y9	TY-2482_chromosome	+	1149302	1149934	28.8487357	52.74404574	30.69881094	31.90889803	23.60709056	22.6079909	0.308034923	0.999453586	0.8017565
B7L8Z0	TY-2482_chromosome	+	1150194	1150841	124.792298	136.0948484	129.3677813	151.1176274	155.8373716	45.97900749	0.000608284	0.201406487	0.1486572
serU	TY-2482_chromosome	-	1151514	1151603	75.33877397	109.8867323	68.20116062	119.8075417	117.5317385	73.08177851	-0.536258636	0.82840966	0.6591535
D3GYI6	TY-2482_chromosome	+	1151658	1152491	441.2265706	435.4794316	433.0626847	1349.233698	1167.561739	1111.937471	-1.501509519	12.92140032	11.854231
asnV	TY-2482_chromosome	+	1152595	1152670	186.474682	181.6829397	124.802376	157.3601497	182.9602655	174.9559412	-0.108783069	0.11808758	0.0868836
B7L8Z2	TY-2482_chromosome	+	1152832	1154091	923.6024042	957.5643721	837.5924907	974.3520825	997.3727399	1169.28518	-0.208719478	0.54211617	0.4184335
B7L8Z3	TY-2482_chromosome	-	1154291	1155592	59.87741394	48.04419242	62.91588793	63.53655741	76.52330526	62.02973224	-0.178500002	0.490253182	0.3764621
B7L8Z4	TY-2482_chromosome	-	1155623	1157023	26.12401462	26.07762575	27.77682675	28.05086563	30.01490898	34.03766325	-0.167317503	0.299086726	0.2238461
B7L8Z8	TY-2482_chromosome	+	1161783	1167905	96.73499654	71.26011834	82.45440679	60.67237323	67.2953654	88.95595735	0.319318312	0.479742672	0.3673097
B7L8Z9	TY-2482_chromosome	+	1167996	1177484	160.8174754	181.1114431	130.2584259	102.8253469	122.9250091	106.6790138	0.437293348	1.79866573	1.4957284
B7L903	TY-2482_chromosome	+	1181096	1183114	61.77319771	90.37775558	70.52271999	53.95078281	52.79483261	46.26113166	0.430145394	1.541233979	1.2710544
F1ZIR7	TY-2482_chromosome	+	1184444	1186950	179.5199015	163.1796701	179.6379104	106.4550828	116.5715047	84.62288073	0.761106197	3.862070206	3.3320922
B7L909	TY-2482_chromosome	+	1188103	1189416	388.6453209	452.848065	455.6910429	426.8498494	414.0450728	436.7428683	0.009585654	0.035570564	0.0241669
B7L910	TY-2482_chromosome	+	1189521	1190972	990.9987163	917.3628961	893.8045594	1334.922024	1130.124707	1791.150269	-0.549738205	2.243171674	1.8876698
B7L911	TY-2482_chromosome	+	1191318	1192031	991.298923	1304.418886	1199.707303	2056.215569	2317.296276	657.9203514	-0.696785475	1.090750245	0.8814102
B7L912	TY-2482_chromosome	-	1192665	1194302	141.1558535	164.2008032	157.8333351	87.09097162	68.19388898	67.32835748	0.992297473	6.525462188	5.8001097
B7L913	TY-2482_chromosome	-	1194426	1195373	163.1262206	157.0313177	142.8314885	49.33545308	49.1611994	42.32052677	1.680514558	16.34804242	15.158519
B7L914	TY-2482_chromosome	-	1195478	1196392	51.59511257	45.02141938	55.63323426	42.12853469	73.91749306	50.20755014	-0.05237684	0.179111682	0.1322372
B7L915	TY-2482_chromosome	-	1196853	1197782	958.7147179	910.0349603	998.3772659	472.1267371	496.0007574	463.200046	1.023154345	6.272172157	5.5631914
B7L916	TY-2482_chromosome	-	1197850	1198926	381.8398824	488.1751247	459.6052834	497.9837675	407.6053396	486.674017	-0.112196454	0.127613034	0.0934769
B7L917	TY-2482_chromosome	-	1198941	1199681	247.1282456	333.7928084	336.9866675	318.8314408	233.7476856	301.1505534	0.061704272	0.19028628	0.1404283
B7L918	TY-2482_chromosome	-	1199681	1200223	205.2585839	294.2463566	261.5203242	178.0550265	165.5987097	169.7614865	0.495046474	2.121599934	1.778644
B7L922	TY-2482_chromosome	+	1202286	1203497	30.36794984	50.96080045	33.43557184	119.0172821	97.41832263	53.49939624	-1.469253672	4.593158331	4.0053265
B7L923	TY-2482_chromosome	+	1203514	1204269	41.92517866	32.61112974	44.4340756	100.5446043	81.0124715	50.73614847	-0.984293189	3.459138891	2.9682907
C2DPG0	TY-2482_chromosome	+	1204329	1205291	23.90642966	33.7925537	24.43530972	25.47484672	28.2247436	27.62201697	-0.160196766	0.226351228	0.1673249
B7L926	TY-2482_chromosome	+	1205297	1206328	77.0657593	70.28568264	75.94209101	36.08512148	34.55034295	38.08529164	1.066044276	5.302291721	4.6570464
D3GYL6	TY-2482_chromosome	-	1206374	1206699	25.28690388	24.23039834	32.66859221	27.99792346	24.45592098	42.78892417	-0.100959139	0.271410017	0.2030057
B7L930	TY-2482_chromosome	-	1206986	1208362	161.6083414	176.1376153	126.9369085	128.9055366	156.5291908	179.8583316	-0.020396245	0	0

E9TFH8	TY-2482_chromosome	-	1210432	1210748	42.08566434	40.48643818	28.58408981	20.2576604	43.84666104	36.68258699	0.164446232	0.199555592	0.1472358
C8TTS1	TY-2482_chromosome	+	1211947	1212700	46.70933001	36.52991582	30.6121707	21.60251438	29.26283196	14.94545297	0.75433481	2.105729925	1.764865
B7L938	TY-2482_chromosome	-	1213665	1215197	367.0691963	411.3747314	378.2348331	196.5984068	150.0367675	191.9319606	1.066127116	7.096465469	6.336393
Q0TGA2	TY-2482_chromosome	-	1216568	1216960	108.1251301	159.4217846	118.629523	205.4678818	135.6594528	25.12208982	-0.236075148	0.079230763	0.0575749
B7L940	TY-2482_chromosome	+	1217530	1218690	410.4744803	440.1056064	422.5108717	633.6543809	496.0504968	215.6785417	-0.235345862	0.111973735	0.0820132
C8TV65	TY-2482_chromosome	+	1218660	1219645	27.13817671	21.25902528	20.23388221	27.59268308	28.22512432	25.13674431	-0.232323303	0.335366119	0.2521314
B7L943	TY-2482_chromosome	+	1219866	1222259	56.72649782	68.2680338	55.94218622	87.42134274	76.37903066	88.06166099	-0.532858443	1.574688648	1.3025489
B7L944	TY-2482_chromosome	+	1222259	1223161	49.43401597	46.53458969	44.0870524	54.56070214	47.25490676	56.45331063	-0.175341055	0.319823168	0.2403754
B7L945	TY-2482_chromosome	+	1223161	1224228	31.08761178	47.21021958	40.32083323	24.74050837	29.14310087	28.88847577	0.467787088	1.180931702	0.9591781
B7L946	TY-2482_chromosome	+	1224259	1225047	79.27105972	97.86936564	60.84599994	35.16815548	51.10884148	34.49529844	0.867851149	3.76013822	3.23783
B7L947	TY-2482_chromosome	+	1225066	1225473	53.04503758	58.57407313	51.35822241	40.62305631	58.46812729	25.69318178	0.307588085	0.771372519	0.6109197
D8EDM2	TY-2482_chromosome	-	1225476	1225709	27.08471896	25.43113754	19.46743704	23.38957282	38.43819797	17.63360948	-0.197552767	0.176439446	0.1300111
Q5K5L6	TY-2482_chromosome	-	1226588	1227559	38.39373273	22.90375637	33.72249906	27.68355204	23.61289502	26.31410411	0.382673253	0.538849958	0.4159365
E9TQB2	TY-2482_chromosome	+	1228180	1228756	50.81960305	66.70880959	39.07447018	18.71193679	32.0356946	17.46441089	1.068557047	4.169789343	3.6159539
D7YLU2	TY-2482_chromosome	+	1228759	1229073	30.66884373	30.85757224	28.9508577	16.72555707	28.36763209	17.36171506	0.530731057	1.105934626	0.8939021
Q1RA65	TY-2482_chromosome	-	1229391	1229744	65.09892966	64.33040717	59.93861384	36.21929751	57.44166347	51.20633587	0.422683312	0.971956571	0.7790337
B7L9N3	TY-2482_chromosome	-	1229851	1230243	2677.87407	2997.56027	2813.215626	1640.024314	2749.602051	1432.094578	0.508594724	0.864177886	0.6888472
C8U552	TY-2482_chromosome	-	1230352	1230882	38.59352155	44.37734195	56.57424961	37.95875381	44.65153827	36.99836589	0.251255009	0.432420218	0.3299799
B7LF78	TY-2482_chromosome	-	1230965	1231942	493.3127687	584.1952566	594.3785415	589.5453391	531.3507621	755.927968	-0.14126358	0.357307805	0.2700027
B3WJP5	TY-2482_chromosome	-	1232009	1232686	243.1430079	222.0928251	225.0495753	145.7185394	162.9171621	162.9171621	0.661839457	2.805373265	2.3883205
D8B6I8	TY-2482_chromosome	-	1232887	1233384	352.7643835	436.4186347	380.2014124	60.40648072	51.78388385	68.14838165	2.659425029	32.0578218	30.525581
B7L9N6	TY-2482_chromosome	-	1233479	1234642	49.41854919	35.70248888	53.77289713	106.5759385	76.29258603	112.8250278	-0.990296041	5.212097137	4.5726982
B7L9N7	TY-2482_chromosome	+	1234851	1236275	1176.460738	1051.766314	1101.220036	1148.52726	1051.934531	1313.988675	-0.03572938	0.148813202	0.1082476
B7L9N8	TY-2482_chromosome	-	1236324	1236548	914.4606848	1098.211682	902.97026	98.76097809	76.34050581	92.04409484	3.372075387	49.46779476	47.571877
B7L9N9	TY-2482_chromosome	-	1236565	1237620	2099.945644	2073.619559	2027.496727	99.89082802	92.79373524	96.07171663	4.413996026	74.86685207	72.569234
B7L9P0	TY-2482_chromosome	-	1237802	1239157	1399.450167	1139.816687	1210.088489	2322.886455	2098.514658	2374.578227	-0.821605288	4.481334903	3.9022549
B7L9P1	TY-2482_chromosome	-	1239427	1240353	383.7096974	361.0004884	359.7343831	201.8213404	158.23642	198.5168579	0.984063421	5.976579674	5.2852498
B7L9P2	TY-2482_chromosome	-	1240402	1241223	1593.124636	1332.759614	1370.493066	899.594422	868.1320717	1018.047479	0.670042371	2.620701559	2.2333321
B7L9P3	TY-2482_chromosome	-	1241309	1241560	239.2194688	269.4616886	234.8753585	195.5212583	200.1796204	226.0777586	0.240364409	0.690789369	0.5418547
A1ACN0	TY-2482_chromosome	-	1241560	1241835	275.1839724	270.7950255	279.2934114	171.6983018	201.1331434	215.5318224	0.531277785	1.822656609	1.5170349
B7L9P6	TY-2482_chromosome	+	1242288	1243184	570.7976512	480.2000163	504.3111023	687.0332687	520.3874863	769.1996694	-0.301185366	0.956533173	0.7659778
B7L9P7	TY-2482_chromosome	+	1243193	1244494	712.0624628	642.0375775	651.5492687	1039.931583	691.4448058	1052.148268	-0.460765275	1.616566731	1.3395984
B7L9P8	TY-2482_chromosome	+	1244494	1245561	601.3220147	592.2821192	545.8188847	911.0403389	649.5919536	1008.609596	-0.562185606	2.064271544	1.728178
B7L9P9	TY-2482_chromosome	+	1245564	1246628	674.4821989	637.355819	756.2245316	1011.570349	707.8332976	1088.902508	-0.393896362	1.455227644	1.1958021
B7L9Q0	TY-2482_chromosome	+	1246631	1247218	379.115594	391.3512027	376.9256314	573.4577572	409.3370305	646.7846204	-0.4995071	1.729533386	1.4384746
B7L9Q1	TY-2482_chromosome	+	1247221	1247955	540.6683391	561.1470557	519.4665128	720.1203633	478.4964847	719.3256063	-0.266172267	0.574937781	0.4456024
B7L9Q2	TY-2482_chromosome	+	1247940	1248713	535.4210818	503.2597526	574.5736908	877.5780656	663.2803564	910.1187744	-0.568627041	2.481890649	2.099925
B7L9Q3	TY-2482_chromosome	+	1248710	1249318	617.0163907	559.9086512	614.733942	798.5023549	769.8568063	866.8313614	-0.401982341	1.576519739	1.3038514
B7L9Q4	TY-2482_chromosome	-	1249422	1250399	523.4060151	483.142375	607.7652481	1714.178487	1689.986541	1488.221749	-1.569465314	13.25308504	12.171231
B7L9Q5	TY-2482_chromosome	-	1250546	1251709	237.7503313	244.7297963	245.6132843	319.5283207	246.5258554	278.9627042	-0.242014418	0.541000891	0.4174615
B7L9Q6	TY-2482_chromosome	-	1251960	1253363	13144.73519	12640.23261	13810.90302	24410.51022	19426.71675	28404.95767	-0.82246111	1.439425755	1.1833723
B7L9Q7	TY-2482_chromosome	-	1253487	1254302	973.5004948	1117.230125	1074.228133	1179.049236	1023.899448	523.3660015	0.082018788	0.432008191	0.3298087
B7L9Q8	TY-2482_chromosome	-	1254318	1255610	990.0299201	982.1633498	1123.293187	796.7850592	917.7138159	145.0045369	0.610033411	1.386385227	1.1373106
B7L9Q9	TY-2482_chromosome	-	1255595	1256815	728.547028	596.6553926	697.939119	691.0342876	648.2641188	51.61079327	0.391273564	0.63155358	0.4925604
Q93NP8	TY-2482_chromosome	-	1256824	1257933	415.6069822	418.3844147	522.0090713	301.3757845	312.5172062	11.99798388	0.961707573	1.549035466	1.2783238
B7L9R0	TY-2482_chromosome	-	1257933	1258880	475.4948064	542.5148434	487.8069299	463.0480559	352.3897607	12.00255022	0.593436157	0.973304527	0.7799363
B7L9R1	TY-2482_chromosome	-	1258968	1260128	1894.199338	2036.945747	1901.383797	2748.853876	1859.377867	83.16960869	0.042545376	0.255923286	0.1904173
B7L9R2	TY-2482_chromosome	-	1260128	1261390	2279.965042	2647.146266	2516.829636	4427.567983	2885.898603	108.1533809	-0.27891422	0.002790503	0.0010743
B7L9R3	TY-2482_chromosome	-	1261399	1262436	3043.526712	3412.535314	3387.733249	5935.332474	3984.34671	164.7412601	-0.301117701	0.019726689	0.0131107
B7L9R4	TY-2482_chromosome	-	1262444	1263001	1263.531525	1639.310352	1501.413869	2268.499175	1672.855035	121.3711819	-0.163930321	0.093009978	0.0680408
B7L9R5	TY-2482_chromosome	-	1263425	1264315	1835.005394	1981.011862	2161.173187	3134.06315	2690.949133	3002.203663	-0.562224863	0.967640888	0.7753111
B7L9R6	TY-2482_chromosome	-	1264561	1265553	2228.471836	2272.162106	2397.410929	3429.470848	3441.830673	3157.652737	-0.54418963	0.89624562	0.7161873
B7L9R7	TY-2482_chromosome	-	1265714	1267105	61.60678378	42.97348967	50.74155146	32.76274335	33.66667979	34.19754475	0.691511421	1.955809405	1.6327233
B7L9R8	TY-2482_chromosome	-	1267119	1268336	29.37076428	23.7361352	22.20989594	41.19647988	22.58976357	35.42699508	-0.412547729	0.922572698	0.5693436
B7L9R9	TY-2482_chromosome	-	1268336	1269613	67.59230854	48.0465449	55.34450638	58.27215369	70.14688184	58.05246454	-0.067478859	0.204792639	0.1512905
B7L9T3	TY-2482_chromosome	-	1284132	1284968	30.12577781	25.87672416	21.46404678	29.96388124	25.49773316	16.28474258	0.02728745	0.099419755	0.0731715
B7L9T4	TY-2482_chromosome	-	1285149	1287308	33.20159011	19.97216354	26.32799396	41.36679726	23.53600986	27.83381278	-0.198171803	0.304127479	0.2275268

B7L9T7	TY-2482_chromosome	+	1289558	1291138	1845.65582	1782.993306	1881.712986	677.5009444	638.7541254	876.9871714	1.385355048	9.288346271	8.3968983
B7L9T8	TY-2482_chromosome	-	1291418	1293268	1166.716719	1105.231616	1062.160874	1173.437475	1291.40425	1182.837731	-0.128458522	0.281064133	0.2098781
B7L9T9	TY-2482_chromosome	-	1293293	1293871	1182.589027	946.7691544	1022.596323	1308.735137	1386.932233	1355.099949	-0.317057139	1.115965185	0.9023794
B7L9U0	TY-2482_chromosome	-	1293966	1294604	278.1245071	266.2700281	309.8697662	573.29963	537.7877866	605.0535306	-0.965347486	5.893031414	5.2054254
B7L9U1	TY-2482_chromosome	+	1294922	1298236	1166.58348	1233.330495	1140.099323	766.3332468	844.5891107	717.2381587	0.574169412	2.73436766	2.3266602
B7L9U2	TY-2482_chromosome	-	1298281	1299135	201.9385463	188.7261261	202.063455	136.1840862	166.5640638	176.0570441	0.367463441	0.917681944	0.7332806
B7L9U3	TY-2482_chromosome	+	1299269	1300618	226.7217208	177.2331658	228.6377026	355.8747069	310.2169149	417.9697418	-0.682285483	3.518567755	3.0223835
B7L9U4	TY-2482_chromosome	-	1300636	1302582	148.1566214	127.4380201	145.3113411	146.0002863	136.5114805	120.0005475	0.074090683	0.128351911	0.0937008
ryeC	TY-2482_chromosome	+	1304134	1304282	58.7339354	50.88915262	32.33646707	31.45518641	86.05957142	23.26367397	-0.050672265	0	0
ryeD	TY-2482_chromosome	+	1304469	1304611	73.70773173	50.46798675	51.84973925	18.9481837	59.64930654	15.26750457	0.946838063	2.054816642	1.7193416
B7L9U7	TY-2482_chromosome	+	1305203	1306447	89.22134345	73.00953403	73.08523525	80.68672276	80.97319757	86.74805292	-0.045950775	0.124780654	0.0919807
B7L9U8	TY-2482_chromosome	+	1306450	1309569	181.5406407	227.4856292	185.9979764	232.89944	220.1343505	303.3923435	-0.369542061	0.989426513	0.7936753
B7L9U9	TY-2482_chromosome	+	1309573	1312647	266.4572116	242.0668671	206.927432	234.9709647	229.2840282	269.4612713	-0.031497288	0.062116157	0.0438478
B7L9V0	TY-2482_chromosome	+	1312651	1314063	83.56023424	106.609159	89.01006143	69.25758611	67.23625202	104.5597009	0.214082643	0.437870048	0.3342233
B7L9V1	TY-2482_chromosome	+	1314063	1315463	123.4521014	109.2129115	122.1948761	139.8896545	120.9446106	153.6745509	-0.17833369	0.549883581	0.424818
B7L9V2	TY-2482_chromosome	+	1315463	1316182	402.3661502	399.1854333	378.1784064	312.9238812	359.4880565	381.326187	0.18534927	0.372277104	0.2819541
B7L9V3	TY-2482_chromosome	+	1316376	1316705	83.10952877	70.65771079	79.2392446	51.39074823	93.113586	47.90212465	0.311066952	0.567673726	0.4394236
B7L9V4	TY-2482_chromosome	+	1316917	1317210	157.6858628	169.7845479	167.7175108	76.72624371	94.76669357	66.16565392	1.031444996	6.438333023	5.7185066
B7L9V5	TY-2482_chromosome	+	1317215	1317508	131.62753	140.802138	117.9173928	74.70720071	85.59279719	76.40244422	0.68539419	3.443503824	2.9547132
B7L9V6	TY-2482_chromosome	+	1317614	1318972	297.6662589	286.259836	289.1358212	430.2421973	344.7800057	466.7256289	-0.49078264	1.852616945	1.5442942
B7L9V9	TY-2482_chromosome	+	1320037	1320933	144.3486288	139.4215483	141.2532465	239.4508953	283.0832184	259.2157017	-0.859151228	4.771801621	4.1655822
B7L9W0	TY-2482_chromosome	-	1321021	1321797	337.2160234	337.7792792	355.275889	297.5570607	296.690238	271.1973956	0.246964418	0.678647878	0.5325198
B7L9W8	TY-2482_chromosome	-	1327574	1328623	443.3153948	499.1112973	477.3480975	1055.171796	991.8647109	1299.394513	-1.22526215	9.203597283	8.3158391
B7L9W9	TY-2482_chromosome	+	1328880	1330154	34.23938977	40.69431692	38.99478893	56.71950749	45.43407031	50.05063675	-0.461561642	1.067367544	0.8608812
B7L9X0	TY-2482_chromosome	+	1330154	1331155	103.9906971	84.31025519	111.8393802	152.7985106	139.1241526	202.0447324	-0.605348799	3.059263616	2.6129042
B7L9X1	TY-2482_chromosome	+	1331155	1332117	136.088222	134.2248143	137.3283186	169.0716976	110.8395264	174.6190685	-0.150298281	0.325645123	0.2449387
B7L9X2	TY-2482_chromosome	-	1332097	1332840	226.6091485	207.0666706	233.8328002	209.7334625	176.4865066	188.2034065	0.229606338	0.561620741	0.434802
B7L9X4	TY-2482_chromosome	-	1333778	1334575	62.78379665	68.80589386	59.24368682	50.75488829	49.17057175	38.49971002	0.390298117	1.288603267	1.051026
B7L9X5	TY-2482_chromosome	-	1334575	1335360	35.79466029	40.70428196	37.59396406	60.20005882	43.59994783	46.22916169	-0.461561642	0.967904573	0.7754118
E11695	TY-2482_chromosome	+	1335391	1335594	64.92103033	74.1723356	70.6510508	33.14359261	54.8245659	29.41147193	0.806152357	3.002957066	2.5629339
B7L9X6	TY-2482_chromosome	-	1335586	1335855	93.50624444	92.691197	87.68646775	33.80349455	50.19216419	35.73978422	1.19375681	6.505583273	5.7817449
B7L9X7	TY-2482_chromosome	+	1335976	1336797	26.66052894	35.39689611	35.1520628	35.01531835	27.22920398	31.58825084	0.006737655	0.040525225	0.0276813
B7L9X8	TY-2482_chromosome	+	1336839	1337354	291.42874	351.9052585	330.1423317	351.0358503	465.1778744	354.1655632	-0.294842938	0.688575587	0.539909
B7L9Y0	TY-2482_chromosome	-	1338492	1340969	36.43062824	45.65140938	43.6525193	23.2423348	20.94580258	14.83817444	1.005800435	3.885057748	3.3537881
B7L9Y3	TY-2482_chromosome	-	1341743	1342282	57.34328791	80.25596265	61.89667977	14.83348325	16.67506251	4.256668178	3.014254397	20.10536182	18.1817084
B7L9Y4	TY-2482_chromosome	-	1342578	1342856	54.42854825	57.17754486	66.26942397	51.68770281	67.46722077	47.67685653	0.106669137	0.143334477	0.1045413
B7L9Y5	TY-2482_chromosome	-	1343122	1344228	5142.939663	4663.218843	5132.728644	6680.863567	5825.138906	7398.721765	-0.369652714	0.558769552	0.4321783
B7L9Y6	TY-2482_chromosome	+	1344360	1346390	1584.065485	1445.432108	1394.228937	1478.361324	1574.274014	2452.683116	-0.225638955	0.796511648	0.6325716
D3GZY0	TY-2482_chromosome	+	1346534	1350325	109.4018596	90.99986371	90.91847326	94.88789954	55.30046265	100.8495818	0.239381703	0.445587925	0.3403679
C8U658	TY-2482_chromosome	+	1350332	1353967	146.7469118	129.3223393	125.2474617	152.4197277	129.1335229	161.6126627	-0.127129279	0.313455961	0.2350353
C8U663	TY-2482_chromosome	+	1356687	1358963	54.73160401	36.04265891	56.38604344	59.71185443	50.86270516	70.69749696	-0.171248013	0.58559691	0.4545251
C6V1M4	TY-2482_chromosome	+	1358959	1360092	30.48076393	48.14388025	27.30841398	30.42712392	27.29995121	22.64355013	0.208528875	0.687762125	0.5396531
C8TU47	TY-2482_chromosome	+	1360092	1362089	86.4936126	114.3078963	98.32711061	61.44986659	51.85703414	43.77121201	0.82127121	4.287496425	3.7244483
D3GZY8	TY-2482_chromosome	+	1362205	1362675	36.58602474	32.20314304	42.51002961	28.78116907	38.35657106	22.78362392	0.34025268	0.570482234	0.4417205
D6BS4	TY-2482_chromosome	-	1362722	1363246	545.7633429	625.1099431	581.62784	513.576185	578.8977808	424.070815	0.153252757	0.496938871	0.3819094
B7L9Z1	TY-2482_chromosome	-	1363239	1363955	371.4558236	444.6609092	417.2859397	519.4403232	351.1439982	406.6701291	-0.127990313	0.089587559	0.0656251
B7L9Z2	TY-2482_chromosome	-	1363955	1365967	565.3851478	586.661	514.084348	832.9640677	749.8597107	711.9587008	-0.516894605	1.680886884	1.3946372
B7L9Z3	TY-2482_chromosome	+	1365859	1366587	195.8463971	237.5007903	176.570767	144.8600109	171.1339645	163.1087861	0.286692231	1.01206171	0.8130124
D7YJB0	TY-2482_chromosome	-	1366590	1366778	142.2088541	145.8007393	111.8050383	86.18019965	135.7840882	97.57467831	0.293757355	0.819768791	0.6520649
B7L9Z5	TY-2482_chromosome	-	1366741	1367469	259.419902	292.5548981	250.6909953	217.591031	289.4866966	261.7773585	0.04804719	0.112272459	0.0820132
B7L9Z6	TY-2482_chromosome	-	1367477	1368400	245.0829541	324.6145347	242.6612698	258.7014845	217.3763874	306.1028723	-0.011750959	0.08708571	0.0636258
B7L9Z7	TY-2482_chromosome	-	1368396	1369550	340.2347167	337.7270709	347.9648841	441.1855674	420.3750106	512.7931148	-0.391613768	1.395271929	1.1446749
B7L9Z8	TY-2482_chromosome	-	1369560	1370474	404.3941304	438.0543927	474.917015	528.5138901	562.4191725	564.3638994	-0.311300891	1.001655534	0.8036583
B7L9Z9	TY-2482_chromosome	-	1370688	1372982	1320.693882	1270.336305	1314.527545	1639.281357	1720.279545	1815.148871	-0.249154201	0.71177864	0.5597483
B7LA00	TY-2482_chromosome	+	1373178	1374890	2805.81292	2772.226083	3067.614837	8422.613346	6574.064914	9198.410019	-1.45135914	3.905943284	3.3737024
B7LA01	TY-2482_chromosome	-	1374934	1375863	723.8245642	749.6219924	763.2725573	929.0062452	1042.026578	1057.650514	-0.416397719	1.663700996	1.37947
B5YW61	TY-2482_chromosome	-	1376040	1376648	132.3801519	136.1194904	122.6242669	85.0713092	109.2971665	92.19850914	0.439929239	1.5789707	1.3057672

D3H001	TY-2482_chromosome	+	1376758	1377369	376.3159592	332.9631453	333.9372651	185.3675969	257.6533749	226.2745011	0.686339033	2.63630325	2.237029
B7LA04	TY-2482_chromosome	-	1377505	1378263	225.9123756	201.8926145	221.8747472	82.35845964	95.54325488	111.4794032	1.241082749	8.085603757	7.2562048
C6V2L9	TY-2482_chromosome	+	1380069	1380398	153.2093766	169.3817422	156.3973893	97.94440548	145.7249921	128.8624036	0.377771508	1.091558574	0.8819998
B7LA06	TY-2482_chromosome	-	1380435	1381379	146.3525288	200.7660031	145.5976231	195.6784266	188.3469254	202.540085	-0.348065653	0.682810094	0.5355383
B7LA07	TY-2482_chromosome	+	1381618	1382013	1093.247138	1072.3655	1226.93938	260.5031977	442.4057364	436.4062844	1.680862936	11.72231609	10.711129
B7LA08	TY-2482_chromosome	+	1382013	1382705	1833.637836	1770.433271	2004.659362	704.5030694	1182.309778	1066.760026	1.01726042	4.459386262	3.8831848
B7LA09	TY-2482_chromosome	+	1382838	1383719	1300.282411	1439.876492	1536.569744	4088.728157	3742.05493	4509.685462	-1.511814435	4.631683539	4.0397807
B7LA10	TY-2482_chromosome	+	1383872	1384588	136.2866171	102.4979463	130.176664	141.6041739	161.1030788	160.4331785	-0.239220318	0.940212822	0.7526283
B7LAG5	TY-2482_chromosome	+	1384594	1384830	75.59386068	74.51778854	67.14576054	31.71358853	28.19865281	25.21123837	1.302757716	7.509270508	6.7267198
B7LAG6	TY-2482_chromosome	+	1385152	1386387	76.89621883	89.31258558	80.47849076	720.9132989	512.2271231	613.113587	-2.96865428	34.75132655	33.141199
B7LAG7	TY-2482_chromosome	+	1386413	1387616	98.94830698	73.85936225	87.12019252	515.1054878	396.6560101	507.6579721	-2.396732566	26.88398223	25.455086
B7LAG8	TY-2482_chromosome	-	1387693	1388700	548.9274061	525.9455267	545.3532312	110.7865172	122.8744293	122.3039265	2.212632251	24.51782894	23.116162
B7LAG9	TY-2482_chromosome	-	1388719	1390236	261.0036726	274.8841983	237.4423306	89.52278308	49.89920298	58.16742523	1.862639815	17.22666908	16.014481
B7LAH0	TY-2482_chromosome	-	1390300	1391295	439.7528152	452.8040797	400.5359547	214.4261101	183.7993558	171.2993818	1.120486911	7.905619961	7.0923331
B7LAH1	TY-2482_chromosome	-	1391578	1392615	53.67049243	32.48182298	30.55236868	56.49536297	43.55178512	66.69239044	-0.446570878	1.200518013	0.9744621
B7LAH3	TY-2482_chromosome	-	1392760	1393914	328.357836	316.9497204	304.8955415	663.2896162	645.2046002	664.3843926	-1.057041903	6.847755586	6.1101633
B7LAH4	TY-2482_chromosome	-	1393934	1394599	1379.266523	1093.727724	1210.138934	2251.664602	2431.649743	2616.575509	-0.918403274	4.233007278	3.6754087
B7LAH6	TY-2482_chromosome	+	1394857	1395690	713.5733777	609.1386118	673.4445005	548.0685155	578.7527937	687.7175032	0.210076081	0.300623203	0.2249297
B7LAH7	TY-2482_chromosome	-	1395728	1397716	214.0385208	215.3495056	163.2538493	102.5497154	95.53313889	94.81875322	0.953269991	6.076170812	5.3796679
B7LAH9	TY-2482_chromosome	-	1398012	1399478	859.2381418	895.9902697	832.4273028	1288.340905	1278.57628	1471.941456	-0.640041154	2.735442415	2.3274916
D7JPX3	TY-2482_chromosome	-	1399465	1399644	105.2848342	104.1059251	130.4314353	118.9324556	107.3342274	118.3598749	0.020322988	0.022762347	0.0152692
B7LAI0	TY-2482_chromosome	-	1399686	1400564	943.6782625	999.2414789	988.3773774	862.2655929	856.3491588	856.4976686	0.177144518	0.490656273	0.3767415
B7LAI1	TY-2482_chromosome	+	1400663	1401709	195.1826389	186.0614625	198.7775342	206.7672213	212.0334469	218.3466938	-0.109680323	0.295824281	0.221375
B7LAI2	TY-2482_chromosome	+	1401786	1402640	510.7789793	477.3622712	524.9751167	1008.859954	859.0027725	1006.334384	-0.902611447	5.344087693	4.6963125
B7LAI3	TY-2482_chromosome	+	1402647	1403732	479.4011962	458.852255	462.1069419	830.7197836	738.8687077	931.159675	-0.812735227	4.427898118	3.8556237
B7LAI4	TY-2482_chromosome	-	1403794	1405041	83.6700354	105.8754524	73.54548283	39.86555624	46.44781313	43.43222937	0.935881439	4.616871686	4.0268241
B5YVW4	TY-2482_chromosome	+	1406212	1406907	23.72795649	28.26429673	30.55844851	32.10367288	33.67678301	32.91621241	-0.256316874	0.425139071	0.324382
B7LAI7	TY-2482_chromosome	-	1406981	1408228	52.90966854	68.08053902	56.67327877	43.19152931	32.72737579	26.72234676	0.665294543	2.621962198	2.2241173
B7LAJ0	TY-2482_chromosome	-	1410616	1412304	6444.432792	9101.231459	8607.000534	1084.215511	652.3018982	945.7961847	3.090541405	13.73102949	12.635165
B7LAJ1	TY-2482_chromosome	-	1412324	1413259	6788.43877	9773.203237	8878.950747	593.8194853	324.6645833	480.1472241	4.079209562	20.92663225	19.617535
B7LAJ2	TY-2482_chromosome	-	1413262	1414389	12374.26846	14593.73185	13968.63115	579.4146282	304.6311592	465.661895	4.849354651	25.32122082	23.909848
B7LAJ3	TY-2482_chromosome	+	1414757	1415935	120.4436459	118.4526731	111.4350736	87.03789822	74.607365	64.80100196	0.576928402	2.714482938	2.309927
D7YNX5	TY-2482_chromosome	+	1416089	1416913	728.3320368	747.0442594	753.3406896	674.9569768	713.480911	730.1009631	0.084688471	0.147648031	0.1075001
B7LAJ6	TY-2482_chromosome	+	1417139	1418602	1281.794997	1190.991005	1336.441516	330.3544052	327.4477755	613.1572978	1.7194062	11.04579008	10.07129
B7LAJ7	TY-2482_chromosome	+	1418723	1419706	346.1861757	310.7479158	401.1269423	731.6526776	653.3488653	745.844362	-0.949608404	5.957455579	5.2675259
B7LAJ8	TY-2482_chromosome	+	1419748	1420458	388.8010928	421.8201602	387.4469504	878.5269382	1016.598782	876.3636674	-1.234164525	8.640527142	7.7805221
B7LAJ9	TY-2482_chromosome	+	1420873	1421436	1410.564758	1255.156628	1276.121085	2281.718712	3549.485443	2024.036784	-0.987801994	3.405207319	2.9207933
B7LAK0	TY-2482_chromosome	+	1421620	1423173	502.7257299	466.1886403	412.3249466	264.9763354	330.4223933	299.9728313	0.632466593	2.599043963	2.2054214
B7LAK1	TY-2482_chromosome	+	1423258	1425069	642.2667999	690.1677296	695.2830128	324.8653759	382.2901252	335.5979401	0.959386833	5.622994808	4.9584061
B7LAK2	TY-2482_chromosome	+	1425073	1426164	288.9658705	215.6436959	246.1869583	163.9472094	179.2802789	189.3059931	0.572178196	1.806841223	1.5033301
B7LAK3	TY-2482_chromosome	+	1426167	1427189	268.9086394	209.4355083	185.0578636	178.2943062	202.941264	222.0954364	0.180470939	0.279750122	0.2089003
B7LAK4	TY-2482_chromosome	+	1427194	1428780	590.1783828	538.7670543	523.395285	571.1889077	621.5868871	603.871238	-0.106130835	0.253184062	0.188231
B7LAK5	TY-2482_chromosome	-	1428790	1429131	528.6411928	571.296124	532.7218813	141.7077929	162.9633452	139.6208339	1.854072782	18.6783882	17.427233
B7LAK6	TY-2482_chromosome	-	1429467	1430654	525.7741092	490.0597104	514.980391	505.9021167	683.5656134	580.2558725	-0.168879266	0.498611306	0.3833337
B7LAK7	TY-2482_chromosome	-	1430685	1431377	591.6441256	556.575894	529.9898845	605.1467734	759.9740542	682.8295739	-0.26875756	0.796020576	0.6322193
B7LAK8	TY-2482_chromosome	+	1431526	1433283	617.0859758	574.6535477	547.1459541	340.4189983	396.7768488	450.9076903	0.593762671	2.137947214	1.7935216
Q1R9N3	TY-2482_chromosome	-	1433399	1433827	6480.174032	5886.169921	5689.715224	2881.102462	4862.682326	3093.420825	0.75734472	1.256978638	1.0233302
B7LAL0	TY-2482_chromosome	-	1433837	1434841	580.3060627	546.9347753	609.5209684	1032.346573	992.8298954	1069.520976	-0.801301437	4.728180538	4.1245954
B7LAL1	TY-2482_chromosome	+	1435023	1435247	325.2579501	324.8903787	340.0782988	363.2888661	517.9411065	451.2391934	-0.384410143	1.373840951	1.1264516
B7LAL2	TY-2482_chromosome	+	1435270	1437027	822.8536011	693.819571	697.0191809	890.015549	1157.644432	1154.910881	-0.470080619	2.111406562	1.6797065
B5YVWY3	TY-2482_chromosome	-	1437287	1439875	239.847587	289.9504709	264.0648141	155.004908	148.3119326	153.9292988	0.754105872	4.073076369	3.5270054
B7LAL6	TY-2482_chromosome	+	1440195	1440839	197.8605411	138.3711276	148.9653884	79.21055945	96.53049803	85.58031484	0.956092807	4.638920209	4.0466454
B7LAL7	TY-2482_chromosome	-	1440880	1441929	444.3997693	362.1183166	409.3421946	326.4555028	309.3936062	313.1692292	0.394529245	1.109926036	0.8972729
Q0TFP6	TY-2482_chromosome	-	1441856	1442483	236.6286852	181.7625118	192.6064027	211.6132563	179.2015919	206.4842897	0.06595783	0.060363164	0.0426374
B7LAL9	TY-2482_chromosome	-	1442483	1444423	349.3721322	327.2139039	301.4893318	267.1584943	237.4128828	327.1344499	0.258423304	0.575487025	0.4459566
B7LAM0	TY-2482_chromosome	-	1444423	1444899	115.851995	97.3980393	139.7649536	47.23785866	36.26320545	60.01213829	1.411121317	7.625240553	6.8333624
B7LAM1	TY-2482_chromosome	-	1444899	1445105	74.18244952	44.54951116	80.998272	26.32771739	17.14474793	32.44194658	1.555255582	6.074653718	5.3786236

B7LAM2	TY-2482_chromosome	-	1445105	1445839	281.2025383	258.5254211	288.6191157	90.40705587	112.0280916	90.96400138	1.529139639	12.56260964	11.51179
B7LAM3	TY-2482_chromosome	-	1445884	1446543	221.4463111	208.8730116	201.22251	43.45140887	41.86798751	37.03881473	2.343953569	27.55019641	26.105695
B7LAM4	TY-2482_chromosome	-	1446543	1447163	511.5043542	502.6234735	517.6352396	84.92429113	72.75625842	75.09042165	2.70483815	34.01966818	32.443108
B7LAM5	TY-2482_chromosome	-	1447179	1447778	634.9157774	631.1542632	619.8920991	63.69943315	68.29859248	56.80386116	3.301382997	47.91079427	46.064362
B7LAM7	TY-2482_chromosome	-	1448237	1449097	659.5191761	743.2114362	628.3112575	27.61827252	18.04886648	35.02410455	4.633908367	69.04901956	66.804647
B7LAM8	TY-2482_chromosome	-	1449087	1449779	1044.815277	974.0952812	971.1021759	41.65943596	29.01124383	38.09003218	4.76911205	78.24834233	75.793117
B7LAM9	TY-2482_chromosome	-	1449789	1452272	7246.592418	6731.394137	7241.498216	118.5680795	65.28653593	127.0921025	6.119842518	37.32726616	35.659147
B7LAN0	TY-2482_chromosome	-	1452272	1452532	985.0573719	812.9476538	937.5859459	5.817588654	3.550087397	10.10812766	7.227621152	109.7363976	106.55417
B7LAN1	TY-2482_chromosome	-	1452525	1453016	2523.593824	1792.455001	2093.516056	10.53218435	8.129085202	11.71072986	7.785285601	124.9349871	121.57667
B7LAN3	TY-2482_chromosome	+	1453424	1453909	1662.382393	1710.35446	1713.97337	2151.388986	2300.652955	2036.756207	-0.361436871	0.759336404	0.6015977
B7LAN4	TY-2482_chromosome	-	1454064	1455707	1302.617542	1304.082048	1483.781372	1235.892813	1173.911531	1344.380271	0.161705097	0.26242986	0.195261
B7LAN5	TY-2482_chromosome	-	1455928	1457568	135.2454709	144.1960172	146.6325076	101.6389463	71.79192099	79.10257512	0.708825668	3.595700645	3.0904745
B7LAN6	TY-2482_chromosome	-	1457647	1458294	115.0721226	106.9392481	135.6769883	100.4729424	94.6044411	103.8609186	0.313045078	0.720631997	0.5675207
B7LAN7	TY-2482_chromosome	-	1458297	1459358	322.4844854	261.7436988	303.0840028	267.2041362	283.0473704	267.1466635	0.167360247	0.26054363	0.1938188
B7LAN8	TY-2482_chromosome	-	1459435	1460487	153.2626946	176.209441	137.6647894	236.2917927	227.4530646	272.0725354	-0.696312985	2.80221826	2.3854176
B7LAN9	TY-2482_chromosome	-	1460602	1461702	42822.56301	48522.71515	48040.74251	140874.1864	132184.9248	154584.5342	-1.619068486	3.65348923	3.1421289
B7LAP0	TY-2482_chromosome	+	1462441	1465110	2273.316276	2472.352143	2380.124572	2467.167169	2572.707816	2682.448982	-0.119517786	0.131271395	0.0958983
B7LAP1	TY-2482_chromosome	+	1465130	1465777	2339.901762	2336.819784	2559.223558	3497.599904	3587.410698	3746.79332	-0.553064791	0.992803164	0.7967531
B7LAP2	TY-2482_chromosome	-	1465983	1468781	1090.37392	1046.186467	1066.908386	1537.944209	1560.721371	1641.80665	-0.546513307	2.266921411	1.9083886
B7LAP4	TY-2482_chromosome	-	1469888	1471534	40.93624494	52.84714667	45.50626138	76.0873383	70.0873383	63.11477253	-0.485595685	0.962773876	0.7711304
B7LAP5	TY-2482_chromosome	-	1471538	1476154	231.6214014	311.5096475	225.4538569	188.3557598	207.5305104	189.5470145	0.293672304	1.177505081	0.9566927
B7LAP7	TY-2482_chromosome	-	1476696	1478381	89.29009786	72.73897664	66.34481536	124.6781592	99.16758004	82.03787108	-0.475537042	1.254558792	1.021399
B7LAP8	TY-2482_chromosome	-	1478533	1481157	9278.632642	7895.910985	8207.923118	18150.71807	14661.71879	18914.34961	-0.996985219	1.951475549	1.6289897
B7LAP9	TY-2482_chromosome	+	1481304	1482023	385.2320006	343.4805991	366.4105509	785.1916863	951.0889962	815.8175162	-1.187998085	8.424168931	7.5730343
B7LAQ0	TY-2482_chromosome	-	1482157	1485888	189.8833278	224.8403323	170.6450925	149.1338744	141.0333516	143.4476286	0.353199205	1.451741125	1.1932448
B3HLS5	TY-2482_chromosome	-	1486316	1486585	82.22191648	84.90959534	82.48275688	130.4310603	135.5551971	162.8127995	-0.75429756	3.876192957	3.3452466
B7LAQ1	TY-2482_chromosome	+	1486584	1488866	2566.709995	2316.29483	2334.474795	6111.784265	6131.834555	8449.58025	-1.452237594	4.164310671	3.6108157
B7LAQ2	TY-2482_chromosome	+	1488958	1490085	1947.460479	1711.514758	1906.81137	4726.213576	4896.949784	5659.491	-1.3934941	4.134810588	3.5830141
B7LAQ3	TY-2482_chromosome	+	1490088	1490339	369.5178806	318.1705558	366.5211048	856.9558473	848.1416085	903.7470717	-1.257075439	9.719486153	8.8067747
B7LAQ4	TY-2482_chromosome	-	1490399	1491046	293.9158913	325.6163489	249.1631263	336.2148374	333.0643118	339.430293	-0.27738658	0.540457815	0.4172917
P0CE57	TY-2482_chromosome	+	1491303	1492283	212.3549857	240.6523657	189.15145	138.8202903	114.5983556	123.733866	0.687062822	3.723358855	3.2038923
B5YX24	TY-2482_chromosome	+	1492425	1492664	12.87781081	8.64329895	9.780580546	138.9601402	118.2875475	102.9787967	-3.510632713	32.70023554	31.1481
B7LAQ7	TY-2482_chromosome	-	1492712	1493785	483.8034003	477.0081638	509.1250267	34336.7971	24871.59375	27633.32474	-5.910033518	31.06997822	29.553647
B7LAQ8	TY-2482_chromosome	-	1493793	1495148	442.676827	428.2751571	470.8702103	42755.27129	32112.88096	36047.94173	-6.378876689	34.11282899	32.525365
A7ZP61	TY-2482_chromosome	+	1495199	1495393	9.723031704	11.95321851	7.696904307	550.7598809	448.6008809	435.7286743	-5.718597935	76.90778191	74.549466
B7LAQ9	TY-2482_chromosome	+	1495421	1497046	502.0246315	423.3549345	426.3289701	3376.6702	2207.594921	3191.454971	-2.692424617	30.38958905	28.882532
B7LAR0	TY-2482_chromosome	+	1497039	1498295	95.58307204	100.7411721	109.7663273	2659.686327	1607.853403	2349.5344	-4.450053695	63.15170131	61.01087
B7LAR1	TY-2482_chromosome	+	1498295	1499482	74.91278683	69.62120522	63.14817425	1459.704427	1091.838680	2094.790005	-4.428193105	61.09563522	59.004491
B7LAR2	TY-2482_chromosome	+	1499679	1500578	67.91848678	81.29954646	69.86669225	80.89712933	105.5847726	119.3318898	-0.4693355	1.568365743	1.2967658
A7ZP66	TY-2482_chromosome	-	1500625	1501134	90.696905	82.35714215	69.62369241	203.3166072	137.2560827	190.598236	-1.161509529	6.70338946	5.9662501
B7LAR4	TY-2482_chromosome	-	1501150	1502349	822.1927803	645.324108	669.2746472	1320.491881	1296.762432	1565.267211	-0.907355751	5.360078175	4.7106082
B7LAR5	TY-2482_chromosome	-	1502452	1502991	92.83942676	85.33335593	82.37235846	51.89328996	50.95487315	50.05733015	0.765766531	3.43999938	2.951677
B7LAR6	TY-2482_chromosome	+	1503270	1503692	255.5867127	305.3005276	269.2774944	266.1241048	494.5804108	203.5135767	-0.28221239	0.387085059	0.2937052
Q31YK5	TY-2482_chromosome	-	1503737	1504357	101.6641076	117.0465012	91.46687552	15.90085892	26.46259706	26.10047338	2.174825781	16.31921748	15.131164
B7LAR8	TY-2482_chromosome	+	1504644	1505780	209.6214036	166.31652	184.133003	74.88192699	81.97100722	63.46976222	1.366633908	10.34958719	9.4054089
B7LAR9	TY-2482_chromosome	+	1505787	1506752	167.7478071	137.5585808	141.11976	42.78420303	48.33586276	29.4513483	1.87010609	16.75687268	15.555409
B7LAS0	TY-2482_chromosome	+	1506755	1508734	551.9759829	515.6364745	520.1868502	177.8220468	161.8902149	219.2759075	1.547756938	12.04845755	11.021569
B7LAS1	TY-2482_chromosome	+	1508734	1509621	212.4720545	198.6737478	194.6418258	78.59519532	78.20647019	98.33088972	1.284073396	9.124368489	8.2398553
B7LAS2	TY-2482_chromosome	+	1509624	1511273	264.6175917	302.9085843	266.5962677	99.46261268	84.59956051	80.47820636	1.583037326	14.83381278	13.703384
D6I9J9	TY-2482_chromosome	+	1511326	1511991	328.7725181	413.4997809	384.9627099	231.5748206	282.199843	240.8919284	0.546522365	2.259528367	1.9016468
B7LAS5	TY-2482_chromosome	-	1511991	1512254	369.2627464	461.6347882	364.1853847	254.3938216	427.157462	204.6942572	0.338393738	1.103540791	0.8919001
B7LAS6	TY-2482_chromosome	-	1512367	1513719	960.9516504	935.5094385	986.4398444	688.4055371	560.4835381	694.4755683	0.58109982	2.430783533	2.0551913
B7LAS7	TY-2482_chromosome	-	1513719	1514678	1744.724263	1526.482137	1873.993666	1385.211292	1162.049398	1341.857698	0.449048317	1.303707824	1.0639875
B7LAS8	TY-2482_chromosome	-	1514681	1515535	2066.270757	1909.756399	2185.53928	2006.401849	1660.10962	2150.723796	0.139799737	0.146342981	0.1067166
B7LAS9	TY-2482_chromosome	-	1515553	1516308	583.8906143	653.8520449	648.4144664	329.3583472	359.4474571	412.7957312	0.797603188	3.828698284	3.3016123
B7LAT0	TY-2482_chromosome	-	1516308	1517975	1016.298344	933.6209064	1088.919488	426.656789	415.8198402	527.1669307	1.221692783	7.643329051	6.8490874
B7LAT1	TY-2482_chromosome	-	1518067	1519359	758.199936	813.6972531	800.2119519	402.309813	485.1320782	427.6654575	0.850775373	4.530655259	3.9472214

B7LAT2	TY-2482_chromosome	-	1519441	1519743	2176.990343	2091.914103	2110.059586	1897.879003	3094.3591	2515.4677	-0.183861828	0.296187931	0.2216257
B7LAT3	TY-2482_chromosome	-	1519801	1520259	222.7050642	254.269922	237.6537461	260.1758737	253.9148719	229.1345305	-0.103718754	0.113151736	0.0827057
B7LAT4	TY-2482_chromosome	+	1520324	1521238	213.1231044	216.260294	207.2224548	233.0875935	234.7854616	236.8162719	-0.15366292	0.336508822	0.2530435
B7LAT8	TY-2482_chromosome	-	1524344	1525798	8092.43123	7419.120879	7846.885956	9703.67552	5905.111752	8886.75802	-0.069330043	0.064753104	0.0457895
B7LAT9	TY-2482_chromosome	-	1525808	1527334	7318.269807	7668.077222	7599.302763	10723.64309	6018.838584	9818.154869	-0.26323358	0.255113413	0.1898287
B7LAU0	TY-2482_chromosome	-	1527501	1529339	9045.604503	11218.90672	10181.46313	14095.26066	8442.335238	12491.59492	-0.274358285	0.210115646	0.1555359
B7LAU1	TY-2482_chromosome	-	1529339	1529638	1756.262347	2401.775234	2307.043396	3006.356196	1848.104265	2790.181571	-0.30365247	0.300036964	0.2245699
B7LAU2	TY-2482_chromosome	-	1529638	1530189	3418.008863	4616.695845	4181.979792	5209.155945	3297.850657	4259.984626	-0.158590326	0.062437469	0.0440239
B7LAU3	TY-2482_chromosome	-	1530204	1530743	3470.456216	4172.037004	4098.190245	4625.036603	2963.827008	4670.057975	-0.089829882	0.061336118	0.0433654
B7LAU4	TY-2482_chromosome	-	1530761	1531735	6349.710355	7057.522867	7253.470898	7026.825218	4430.841631	6450.261581	-0.179800488	0.225143918	0.1663635
B7LAU5	TY-2482_chromosome	-	1531735	1534464	21723.89566	22113.61912	23075.2832	16989.16203	10972.27651	17747.20487	0.55915204	0.726777985	0.5724466
B7LAU6	TY-2482_chromosome	-	1534514	1535848	9699.450976	9574.606837	9813.078267	5440.31477	3843.83812	6891.736076	0.891775423	1.482206005	1.2199309
B7LAU7	TY-2482_chromosome	-	1535848	1536345	3844.563647	3856.431001	4131.862991	1644.976725	1279.34218	2171.314967	1.274929293	3.016989092	2.5751274
B7LAU8	TY-2482_chromosome	-	1536351	1538150	9768.863815	10627.66444	10853.69774	4026.320104	2860.975027	5344.476793	1.395823657	3.110653603	2.6562415
B7LBP8	TY-2482_chromosome	-	1538247	1538906	4480.845096	4809.429191	5407.60723	2131.029296	1780.835579	2518.936724	1.234832654	2.896375877	2.4682449
B7LBE2	TY-2482_chromosome	-	1538925	1539365	3427.962805	3349.666534	4052.2018	1520.848469	1479.699183	1721.906318	1.256572178	3.110315761	2.6561745
A1ADD7	TY-2482_chromosome	-	1539515	1539820	1161.306317	1287.026669	1147.336434	315.938176	560.9085629	318.9119313	1.561883824	11.58956239	10.587273
B7LBE3	TY-2482_chromosome	-	1539999	1540934	545.2697706	570.5887257	437.9378977	466.9520285	490.5624721	419.9310293	0.103392731	0.392503534	0.2973504
B7LBE4	TY-2482_chromosome	+	1541854	1543068	1212.265413	1169.788447	1189.712474	1459.99903	1279.458737	1462.868616	-0.228517166	0.600511634	0.466988
B7LBE5	TY-2482_chromosome	+	1543155	1543751	376.8338679	418.9136246	366.9147861	278.1757117	282.9652603	354.8084236	0.344871123	1.024179848	0.8230186
B7LBE6	TY-2482_chromosome	-	1543816	1545645	3087.76336	3337.562368	3023.069553	330.019379	278.4327417	268.620679	3.366687231	50.88799004	48.976832
B5YXT3	TY-2482_chromosome	-	1545735	1546382	2611.423628	2599.248059	2655.473848	3412.463788	3034.051846	3319.268615	-0.313276522	0.421961853	0.3214447
B7LBE8	TY-2482_chromosome	-	1546396	1546935	2472.287272	2473.203654	2635.096056	3001.943131	2785.623215	2989.043666	-0.200667903	0.262264283	0.1952065
B7LBE9	TY-2482_chromosome	-	1547021	1547473	524.103078	561.4598736	573.824837	434.0421519	456.8715015	422.4312368	0.330524974	1.049024647	0.8446762
B7LBF0	TY-2482_chromosome	+	1547811	1549010	4245.462423	4219.389734	4261.140712	10979.17285	8628.041297	12688.62588	-1.318572346	3.188938858	2.7274249
B7LBF1	TY-2482_chromosome	+	1549088	1551229	5486.411368	4537.056486	4572.581799	22985.40821	17398.18227	27798.33208	-2.169771659	6.72755897	5.9883336
B7LBF2	TY-2482_chromosome	+	1551422	1552939	257.9026448	277.8755034	270.0245754	66.52692652	60.04814093	55.46467952	2.104552947	23.64988312	22.262379
B7LBF3	TY-2482_chromosome	-	1552978	1553517	480.6277823	553.4636571	569.9475816	587.3381505	515.0456183	519.7973358	-0.046445436	0.028361995	0.0190323
B7LBF4	TY-2482_chromosome	-	1553578	1554129	528.5842916	541.4748431	607.6401083	633.693289	627.0051799	652.509058	-0.165244084	0.45592977	0.3481561
B7LBF5	TY-2482_chromosome	-	1554185	1554826	130.6568995	170.5884447	136.4826816	164.6002745	186.5863822	184.1315493	-0.346708809	0.824181982	0.6557776
B7LBF6	TY-2482_chromosome	+	1554962	1555606	153.3563652	170.8555862	122.3237832	145.7384041	154.7377445	140.9006841	-0.061939675	0.005681926	0.0033921
B7LBF7	TY-2482_chromosome	+	1555666	1556025	510.5487173	622.1347323	565.1312108	566.4461958	614.2612502	702.2395799	-0.156595946	0.327209435	0.2461591
B7LBF8	TY-2482_chromosome	+	1556049	1556939	952.0370908	960.4223731	868.6595274	1062.431467	1087.489418	1176.019436	-0.261940534	0.696569866	0.5469642
B7LBF9	TY-2482_chromosome	-	1556993	1557892	94.04824591	112.4110997	102.9739547	60.6549077	46.31760566	56.52352287	0.870392572	4.551988444	3.9670935
B7LBG0	TY-2482_chromosome	-	1558092	1558862	191.2282969	225.9880059	219.9328682	126.787404	122.845101	121.111675	0.750131808	4.057421873	3.126872
B7LBG1	TY-2482_chromosome	-	1558873	1559586	193.6975497	176.2246105	202.1645643	93.85417326	93.7192729	97.32429858	1.045260489	6.462163095	5.7413372
B7LBG2	TY-2482_chromosome	-	1559586	1560269	271.5028268	230.9281587	288.0919182	124.5553098	148.4045814	130.3453996	1.035539696	5.64404674	4.9772546
B7LBG3	TY-2482_chromosome	-	1560362	1561141	1353.757199	1149.977384	1234.582811	1036.895605	1133.066013	989.5309688	0.26809977	0.621460517	0.4850805
B7LBG4	TY-2482_chromosome	-	1561365	1562144	110.5431537	137.2784715	107.3645809	105.69363	107.3865614	105.2944216	0.085573681	0.325133127	0.244729
B7LBG5	TY-2482_chromosome	-	1562413	1562979	100.1685379	100.6644224	103.0121949	117.9991983	107.2749185	156.0131507	-0.280050369	0.899109424	0.7181873
B7LBG6	TY-2482_chromosome	-	1563077	1564591	562.489404	518.1475841	506.9112236	1526.213636	1294.883719	1740.181778	-1.496886077	12.01153008	10.987668
B7LBG7	TY-2482_chromosome	-	1564631	1565116	422.230153	288.1636458	328.6185836	824.1923954	824.5073876	798.6611991	-1.176752983	7.99777625	7.1766498
B7LBG8	TY-2482_chromosome	-	1565378	1566037	1013.289387	1012.508425	1029.97066	1144.534429	1023.69548	1399.346983	-0.187570923	0.537999982	0.4155536
B7LBG9	TY-2482_chromosome	-	1566030	1567295	916.8257207	912.0640202	926.3062143	1393.217636	1394.106577	1920.192848	-0.715921741	3.588513023	3.0851104
B7LBH0	TY-2482_chromosome	-	1567368	1568279	2873.971397	2669.368784	2895.848702	6052.285778	6455.020804	6088.74057	-1.1144512	2.661273465	2.2608045
B7LBH1	TY-2482_chromosome	-	1568438	1569094	376.7364496	427.0585723	416.6510927	1215.597592	1135.692868	1262.884469	-1.579602704	14.44936344	13.330347
B7LBH2	TY-2482_chromosome	-	1569180	1569989	491.3024485	499.6599867	487.8561323	1453.359112	1253.951094	1575.845668	-1.528832465	14.11646699	13.004896
B7LBH3	TY-2482_chromosome	-	1569992	1571002	682.8430474	624.1275834	661.5496868	1970.949604	1524.186464	2146.714599	-1.486331101	11.63114531	10.625976
B7LBH4	TY-2482_chromosome	-	1571071	1572204	1049.875873	1132.885938	1071.497761	1433.707339	1257.613192	1465.462985	-0.370769164	1.092038507	0.8821713
B7LBH5	TY-2482_chromosome	+	1572303	1573295	219.8792728	206.7342965	221.2157105	432.6631316	436.8005082	470.8721817	-0.106244854	6.574301948	5.8448859
B7LBH6	TY-2482_chromosome	-	1573298	1574473	131.6031686	136.2181998	126.6436368	182.5763121	172.8729863	185.4564106	-0.470668477	1.712074559	1.4230569
B7LBH7	TY-2482_chromosome	-	1574760	1575977	9556.567338	9826.770404	9894.952726	10104.73986	10827.76476	12454.61784	-0.157044599	0.200933975	0.1482921
B7LBH8	TY-2482_chromosome	+	1576136	1578139	1015.520516	1078.712842	986.9100055	750.1186687	633.3068843	747.1546458	0.505211027	2.245780546	1.889631
B7LBH9	TY-2482_chromosome	-	1578266	1578541	551.8825773	579.0472724	526.7065605	360.0140893	535.2758259	419.8182278	0.336052136	0.946847642	0.7579125
B7LBI0	TY-2482_chromosome	-	1578578	1579123	667.8900988	611.2114606	643.0499396	536.1683651	668.0435427	627.4997261	0.114783316	0.135792841	0.0995931
B7LBI1	TY-2482_chromosome	-	1579126	1579932	587.9574957	485.7598992	555.2917801	489.930759	469.5581063	489.3997889	0.213250742	0.397943933	0.301842
B7LBI2	TY-2482_chromosome	-	1579935	1580756	818.9599524	808.5165471	724.692779	613.1837331	578.7016295	762.6126025	0.283314942	0.712817579	0.5606529

B7LBI3	TY-2482_chromosome	-	1580763	1581845	1744.684844	1667.296058	1826.97796	1152.956893	1008.185454	1587.208239	0.559116911	1.587550642	1.3134537
B7LBI4	TY-2482_chromosome	-	1581883	1582812	1271.354013	1137.203863	1320.624957	1407.954853	1391.442794	1477.362381	-0.150123877	0.475929025	0.364112
B7LBI5	TY-2482_chromosome	+	1582978	1583526	675.1111457	807.5493289	716.2625392	228.9372115	273.0776481	247.3864373	1.521021719	13.12968403	12.050122
B7LF78	TY-2482_chromosome	-	1583726	1584703	524.8467015	548.9260696	591.0713863	596.8691617	514.0541385	721.798518	-0.098773562	0.287484925	0.2148972
B7LBI7	TY-2482_chromosome	-	1584933	1585802	253.48211	289.4791052	274.7855956	135.0775524	171.2138329	127.9196525	0.753012938	3.934599763	3.997584
B7LBJ2	TY-2482_chromosome	-	1588075	1590714	171.4106293	176.4197291	126.8903992	77.72962226	69.14654127	63.38455242	1.081633353	7.382739916	6.607623
B7LBJ4	TY-2482_chromosome	-	1592037	1592519	390.3212586	379.3172805	417.3965753	980.9655102	1138.545169	986.8637411	-1.363785464	10.95010861	9.9791828
B7LBJ5	TY-2482_chromosome	-	1592725	1594866	245.7738597	320.2100138	273.9156547	394.9437908	357.6371592	327.8469322	-0.454568287	1.10771785	0.8952199
B7LBJ6	TY-2482_chromosome	-	1594869	1596176	110.5465168	139.5912692	104.6701547	93.47667512	51.71565195	60.7959881	0.630294408	3.035077818	2.5911053
B7LBJ7	TY-2482_chromosome	-	1596359	1596640	5413.676299	5401.080217	4783.800139	147.5505623	355.4120614	149.4343297	4.568791597	23.40829293	22.036749
B7LBJ8	TY-2482_chromosome	+	1597006	1598349	2048.396102	1904.118817	1960.192647	1879.534103	1613.409327	2120.42579	0.107180387	0.110646171	0.0810891
B7LBK0	TY-2482_chromosome	-	1599961	1600713	1241.517471	1126.309345	1154.012065	1436.734703	1813.883021	1294.977074	-0.364044123	1.086437404	0.8778026
B7LBK2	TY-2482_chromosome	+	1601007	1601936	172.5779345	183.2481972	204.2438201	119.0105761	115.5924516	100.2517458	0.731404761	3.760328157	3.23783
argW	TY-2482_chromosome	+	1602015	1602089	33.77235128	47.18248172	15.61875224	11.72199721	40.44326531	13.68977186	0.362627549	0.760998776	0.6027124
B7LBK3	TY-2482_chromosome	+	1602251	1603405	136.048305	132.0590172	147.372375	106.0422467	91.8935478	83.16709928	0.549955034	2.349522965	1.9824334
B7LBK4	TY-2482_chromosome	+	1603625	1605544	807.6008938	839.6026627	826.5930996	497.6621691	505.4042975	60.80389272	1.032565221	2.59871193	2.2053627
B7LBK5	TY-2482_chromosome	-	1605621	1607597	79.93581943	87.14632501	81.81308384	70.73392784	88.59660847	14.38379883	0.369712618	0.862340613	0.6872596
A5VVW59	TY-2482_chromosome	+	1609055	1609303	496.4959678	497.5348195	529.6034284	106.7875389	153.3627127	11.90615255	2.356062137	8.4057078	7.5559219
D7X4T9	TY-2482_chromosome	+	1609303	1609614	556.3893229	526.2040753	571.8409838	168.0766383	204.2129546	34.31946177	1.908862793	8.073318084	7.2458422
C8TUZ6	TY-2482_chromosome	+	1609607	1610125	677.3798129	736.6111667	762.6931673	267.6066846	270.5514712	55.4028866	1.718818792	7.414232646	6.6357006
B7LTY2	TY-2482_chromosome	-	1610146	1611990	334.0992113	390.6498904	364.4351752	115.9306303	139.4950408	47.15366156	1.721892557	11.05672245	10.078618
C8TV01	TY-2482_chromosome	-	1614616	1615461	45.64285535	44.01017089	43.50428204	37.2737397	43.7307342	38.24980245	0.165258452	0.271069912	0.2027889
B7LBL8	TY-2482_chromosome	-	1615464	1616879	68.61915664	74.91371912	82.74130404	76.70275534	80.99412949	82.83468962	-0.067162439	0.143016459	0.1043787
B7LBL9	TY-2482_chromosome	-	1616891	1617370	20.69930088	27.69664238	27.20649419	37.55382811	35.49113543	31.76637219	-0.521903713	1.005509091	0.8072115
B7LBM1	TY-2482_chromosome	-	1617576	1618844	118.9900197	129.7688785	91.93866272	83.85547599	101.0893499	85.6556114	0.264800566	0.917114623	0.7328588
B7LBM3	TY-2482_chromosome	-	1619757	1621952	37.1951391	52.04314987	38.76472735	17.26890403	29.23452992	23.68060775	0.815237614	2.455496966	2.0771847
E1U309	TY-2482_chromosome	-	1624100	1624794	205.5917386	230.7229762	195.2091072	77.70614057	112.9828965	89.58045864	1.148805687	7.64043105	6.8467815
B7LBQ9	TY-2482_chromosome	+	1627319	1627987	34.30135887	40.38113651	34.89109873	44.62955689	61.18474502	27.03331611	-0.368222981	0.490965076	0.3769266
B7LBR1	TY-2482_chromosome	+	1628353	1628559	25.48621572	23.48534877	23.00610917	29.53481422	27.25871972	31.48115711	-0.281432496	0.473130254	0.3620512
B7LBR2	TY-2482_chromosome	+	1628559	1629185	45.94375883	81.56064479	57.9686619	63.45154919	56.4471762	39.98628865	0.022800418	0.327921749	0.246642
E9U5T6	TY-2482_chromosome	+	1629244	1629480	123.3830822	137.7901441	108.6151644	92.46305866	180.8263685	13.23640184	0.203599838	0.417701294	0.3183819
B7LBR4	TY-2482_chromosome	-	1630329	1631573	36.4701973	43.32444046	42.32342095	24.34933066	26.44557892	18.73278157	0.760274887	2.457312231	2.0787725
B7LBR6	TY-2482_chromosome	+	1632766	1634205	161.4570449	189.0452666	149.5813254	79.69509838	106.5525349	98.60525326	0.780629692	4.070251745	3.5245153
B7LBR7	TY-2482_chromosome	-	1634219	1635397	1259.392662	1284.852622	1145.280543	775.3337281	998.4659867	752.8391605	0.520836465	2.046193049	1.7119524
E6A6E9	TY-2482_chromosome	+	1635442	1635657	51.4014188	70.06753007	53.28250273	37.42500797	34.53817122	39.38123342	0.570706767	1.919879837	1.6011929
B7LBR9	TY-2482_chromosome	+	1635678	1637003	249.0096595	232.7649666	264.2383734	258.7002848	222.8510138	300.8956774	-0.015077997	0.124790752	0.0919807
B7LBS2	TY-2482_chromosome	+	1640231	1640842	1306.32754	1408.893382	1447.334048	646.6072652	682.691446	370.5726304	1.216265805	8.066901158	7.2407026
B7LBS3	TY-2482_chromosome	+	1640850	1644440	1473.023037	1791.470027	1606.953749	1142.473613	1078.471307	755.805337	0.60565101	2.920118052	2.4884021
B7LBS4	TY-2482_chromosome	-	1644502	1645644	29.83694471	28.98963654	33.82102002	31.44437896	19.01648617	19.99515731	0.358130723	0.701327468	0.5506462
B7LBS6	TY-2482_chromosome	-	1646735	1648426	29.99288486	34.42964237	21.33089836	45.45591182	16.20708715	15.10753244	-0.080079809	0.143774016	0.1047727
B7LBS7	TY-2482_chromosome	-	1648483	1649730	26.76784737	26.64973966	34.63907146	27.69538635	25.46873194	23.82542114	0.216415364	0.272767594	0.2038176
B7LCC7	TY-2482_chromosome	+	1651171	1651443	72.33918644	109.4343172	63.51510898	25.28254239	20.92170492	16.13425095	1.763158023	11.15250488	10.170766
B7LCC8	TY-2482_chromosome	-	1651526	1651765	460.304882	649.4056749	547.2846621	167.5912292	277.8233445	172.7681792	1.356388271	8.749727867	7.8848703
B7LCD0	TY-2482_chromosome	+	1652118	1653035	1445.74909	1268.030408	1266.830143	1127.064767	1491.638348	1485.118817	0.015635389	0.077157844	0.0559019
B7LCD1	TY-2482_chromosome	-	1653533	1654768	712.6837733	804.5084047	608.9726755	804.4068987	754.3649967	899.6386741	-0.261103643	0.536820329	0.4146639
E1J8V4	TY-2482_chromosome	+	1654888	1655193	111.0598983	76.59282529	86.30953115	35.25059066	39.1311836	41.96710538	1.315572065	6.802939275	6.0600476
B7LCD2	TY-2482_chromosome	+	1655145	1656839	923.5496325	981.8834955	968.0026053	961.2424064	995.568509	1111.482382	-0.097689911	0.328098268	0.2466732
B7LCD3	TY-2482_chromosome	+	1656857	1657588	542.8292152	571.7879046	578.4100658	532.888027	643.4467431	641.88624	-0.076204775	0.207920841	0.1535568
B7LCD4	TY-2482_chromosome	+	1657604	1658458	385.2819	323.320932	362.4804326	316.1518211	394.1102793	378.807756	0.04822861	0.035873204	0.0242166
B7LCD5	TY-2482_chromosome	-	1658467	1660959	113.9385747	95.81526753	87.48864722	185.323065	154.6178381	186.6839453	-0.821206402	1.317772211	3.7521984
B7LCD6	TY-2482_chromosome	-	1660987	1662021	13.94077548	21.96675999	19.22879524	41.85092289	31.81494762	26.69200271	-0.984972407	2.343441494	1.9776051
B7LCD7	TY-2482_chromosome	-	1662024	1663106	33.62678451	37.7961562	30.83232944	38.21748896	41.02791067	26.76142611	-0.139024354	0.078348092	0.0567923
B7LCD8	TY-2482_chromosome	-	1663124	1664368	36.37630511	48.08209753	46.34370858	38.83653236	34.54226281	36.8604136	0.204071649	0.450130765	0.3436966
B7LCE0	TY-2482_chromosome	-	1664938	1665900	2148.372622	2323.412895	2445.662191	3060.022739	2697.375628	2435.520332	-0.279399823	0.312709911	0.2344032
B7LCE1	TY-2482_chromosome	+	1666104	1667357	215.3940646	211.3623592	207.8984894	192.8767905	229.4104698	194.8697085	0.042872939	0.069778351	0.0500188
B7LCE2	TY-2482_chromosome	+	1667475	1667798	99.38061044	103.1255214	105.6843843	167.8137022	209.3917291	184.250711	-0.848449132	4.753804866	4.1490723
B7LCE3	TY-2482_chromosome	-	1667945	1669180	417.8898623	460.7603413	458.9204671	197.7970744	289.533536	242.1092548	0.895279526	4.473163778	3.8958851

B7LCE4	TY-2482_chromosome	+	1669516	1670715	2643.979075	2028.633167	2086.097682	3600.70471	3018.491375	4536.957582	-0.649430847	1.319585622	1.078707
B7LCE5	TY-2482_chromosome	-	1670771	1672957	477.0872362	481.7631803	481.2905323	288.7297192	319.4410878	324.8659202	0.64377247	2.725023457	2.3187734
alaW	TY-2482_chromosome	-	1673165	1673240	1802.879452	1085.206123	535.3830616	530.680862	2196.0838	268.6571907	0.150732492	0.16991197	0.1253581
alaW	TY-2482_chromosome	-	1673280	1673355	1793.083786	1113.389017	564.4717639	566.1050213	2422.69076	312.0589994	0.032266303	0.058584468	0.0415055
C8UDX7	TY-2482_chromosome	+	1673576	1673932	794.1121149	867.4290598	804.0759038	227.309592	289.6365303	137.7158235	1.830111138	14.69654878	13.569958
B7LCE7	TY-2482_chromosome	+	1673937	1674326	575.0325484	592.3914303	586.2690523	260.8796384	304.1346062	167.8615763	1.19852277	7.426460647	6.6473568
B7LCE8	TY-2482_chromosome	-	1674384	1675796	2804.648861	2268.084649	2420.301121	4120.38118	3771.206891	4024.455941	-0.63827622	1.202406965	0.9758703
valY	TY-2482_chromosome	+	1676055	1676130	457.1458689	449.6880358	330.2039949	186.1586513	572.2687107	131.5194765	0.40843317	0.780959321	0.6195104
valY	TY-2482_chromosome	+	1676175	1676250	866.1508414	889.8781308	652.4193185	360.1093598	1127.387395	302.4705303	0.367350899	0.718169267	0.5653287
valY	TY-2482_chromosome	+	1676295	1676371	396.6185658	387.6794399	268.0513001	141.5220536	418.3986952	114.2774072	0.575376818	1.292942108	1.0542122
valY	TY-2482_chromosome	+	1676416	1676491	542.3699225	504.7317297	438.0440037	441.744753	1144.580953	343.2045082	-0.405331944	0.654528902	0.511983
valY	TY-2482_chromosome	+	1676538	1676613	709.8437868	679.7414762	589.9210158	712.8088294	1206.201567	531.0939744	-0.355675257	0.669812539	0.5243501
lysV	TY-2482_chromosome	+	1676618	1676691	483.9321318	451.2079229	450.8425357	456.3752322	594.4881053	327.0190056	-0.022973304	0.010997224	0.0072702
B7LCE9	TY-2482_chromosome	-	1676803	1677684	197.104539	251.5260258	249.7501895	101.8612001	127.6089166	63.92240741	1.170440128	7.036908482	6.2811954
B7LCF0	TY-2482_chromosome	-	1677939	1679192	157.2768272	122.6061362	137.9257137	49.63195697	60.1032274	57.83700466	1.385525495	8.856239964	8.9332908
B7LCF3	TY-2482_chromosome	-	1681140	1682063	163.4002378	117.6454321	127.8848074	66.80570807	52.74931673	45.11836666	1.304178126	9.622469597	7.763841
B7LCF4	TY-2482_chromosome	+	1682153	1683148	820.6019771	673.5749207	720.2159718	806.3241033	897.3597285	806.5950673	-0.145345141	0.451230151	0.3441876
B7LCF5	TY-2482_chromosome	-	1683151	1683366	236.1267691	277.3407817	260.132995	292.6718734	362.3077886	289.6674544	-0.317520007	0.78767145	0.6251171
B7LCF6	TY-2482_chromosome	-	1683371	1685383	1096.192384	1212.724153	1171.918545	1933.375236	1780.903526	2079.800818	-0.742483902	3.547836717	3.0480583
B7LCF7	TY-2482_chromosome	-	1685457	1686440	3310.508311	3631.766957	3747.618956	2795.367359	3364.521572	3131.159425	0.217580189	0.241819684	0.1796205
B7LCF8	TY-2482_chromosome	+	1686670	1687428	281.1484809	276.0812712	293.2117997	211.7646681	260.3283833	249.8933331	0.276013709	0.627813382	0.4897366
B7LCF9	TY-2482_chromosome	+	1687616	1688584	15031.5817	14571.69611	14692.82363	3439.209132	3421.773225	3579.735601	2.096334701	6.642309458	5.9077598
Q83QP3	TY-2482_chromosome	+	1688971	1689225	8764.008572	7795.475489	8542.812656	9705.181887	9249.748676	9073.900912	-0.140021279	0.167189171	0.1229515
B7LCG1	TY-2482_chromosome	+	1689273	1690997	25473.69225	23808.84878	24634.65423	31112.71368	25188.32567	27247.78479	-0.186660734	0.175317116	0.1292846
B7LCG2	TY-2482_chromosome	+	1691041	1691547	9731.667072	9080.447063	9612.373998	12785.82748	13261.31012	11538.1833	-0.399483227	0.513100716	0.3948348
B7LCG3	TY-2482_chromosome	-	1691595	1692443	618.2745752	667.3448737	727.7984619	682.1277237	731.678162	769.5051322	-0.088425937	0.24935081	0.1853625
B7LCG4	TY-2482_chromosome	+	1692548	1692913	120.2013216	124.4786149	152.2273823	82.58546454	87.35840107	91.99504355	0.649515462	2.538747924	2.1503139
B7LCG5	TY-2482_chromosome	-	1692922	1693830	920.5130288	975.9233929	938.8067916	324.2620299	304.7835985	391.673585	1.489291963	0.217580189	0.10953028
B7LCG6	TY-2482_chromosome	-	1693967	1695061	4276.077274	4466.277226	4354.212909	182.7632899	153.7269311	171.0300181	4.66665389	31.69069574	30.168071
B7LCG7	TY-2482_chromosome	-	1695054	1695926	2453.50057	2924.644025	2484.944397	106.6668008	87.30112622	92.19886954	4.701150084	80.62612282	78.112905
B7LCG8	TY-2482_chromosome	-	1695929	1696759	2737.837186	2771.415355	2630.918377	104.5860226	87.28999134	99.95041527	4.780403967	84.14422462	81.526272
B7LCG9	TY-2482_chromosome	-	1696762	1697775	3991.255343	3940.933408	3724.895221	161.6222604	127.2733676	179.8827533	4.641055875	48.43585964	46.575855
B7LCH0	TY-2482_chromosome	-	1697949	1698737	2889.607615	2862.121384	3000.823644	5308.017974	4278.984676	4536.365916	-0.708072755	1.227988001	0.9977484
B7LCH1	TY-2482_chromosome	+	1698869	1699723	72.27545324	34.41997782	58.14941798	54.20968568	40.87847024	43.55933222	0.354001011	0.473858868	0.362411
B7LCH2	TY-2482_chromosome	+	1699887	1700780	355.8701734	380.9704553	373.6929305	532.9806187	410.3330994	463.1555584	-0.377890502	0.995777971	0.9788303
B7LCH3	TY-2482_chromosome	+	1700787	1702208	347.1051477	317.3434985	316.7949238	476.1149923	331.1434835	356.768359	-0.287205412	0.612883909	0.4780642
B7LCH4	TY-2482_chromosome	+	1702216	1703517	296.2399818	283.3517222	262.5663852	293.3323873	222.8694246	242.2079725	0.108729348	0.328067679	0.2466732
D3H2T1	TY-2482_chromosome	-	1703579	1704502	3592.455682	3853.5144	4083.711138	1683.90351	1511.1529682	1712.828047	1.237309079	3.259861478	2.7894443
B7LCH6	TY-2482_chromosome	-	1704574	1705146	386.6247734	383.9408922	382.2327158	1313.129701	1680.067543	1386.819793	-1.914707556	20.78156255	19.476325
B7LCH7	TY-2482_chromosome	-	1705210	1705656	269.1740473	297.7515091	252.63786	183.2310212	178.3518661	181.5744171	0.548301218	2.484573321	2.1023783
D3QM21	TY-2482_chromosome	-	1705646	1706179	259.2710155	328.0643191	280.4928223	246.8224608	255.7232695	259.149055	0.137369909	0.443820671	0.3389642
B7LCH9	TY-2482_chromosome	+	1706282	1707148	570.4888163	648.067313	570.9539944	684.4454861	627.9043598	631.5894085	-0.172877366	0.259126536	0.1929562
C8UE11	TY-2482_chromosome	+	1707155	1708051	342.5332357	337.4908463	326.7138753	398.8364597	305.6444071	403.6727603	-0.14381229	0.297652569	0.2227512
B7LCI1	TY-2482_chromosome	-	1708063	1709112	91.96489262	90.46141093	93.09846412	96.7793231	65.35750384	100.9755413	0.076204434	0.118711642	0.0872437
B7LCI2	TY-2482_chromosome	-	1709161	1709658	57.13260187	26.87839412	55.79760713	90.08786413	83.70548667	81.68821123	-0.721454122	3.15791994	2.6983295
B7LCI3	TY-2482_chromosome	-	1709674	1710330	46.75227202	70.30325536	61.47796645	125.5703986	98.16501508	131.3216648	-1.05396882	5.078180766	4.4498394
B7LCI4	TY-2482_chromosome	-	17110343	1711227	49.9871089	64.92121517	46.5751815	167.0902496	121.8108697	161.6579334	-1.576477464	10.62170299	9.6613274
B7LCI5	TY-2482_chromosome	-	1711251	1712609	64.16066043	74.13470712	70.66108374	230.1713769	161.8346838	223.4525562	-1.589885849	12.13480428	11.104868
B7LCI6	TY-2482_chromosome	-	1712624	1714024	50.4751564	36.97790009	33.96355041	65.90990857	49.0328621	63.04489689	-0.540380045	1.525650853	1.2575933
B7LCI7	TY-2482_chromosome	-	1714024	1715247	51.10859987	37.44279457	41.45461534	44.70008389	38.14918021	47.21372862	0.051715843	0	0
Q8Z4T7	TY-2482_chromosome	-	1719006	1719690	40.52641332	25.63297193	41.16655	46.16967339	41.85487429	37.07597768	-0.142155623	0.350949497	0.2651716
B7LCJ3	TY-2482_chromosome	-	1719732	1720745	28.40982652	30.44359585	26.25590371	51.65883999	39.07622432	37.11303907	-0.664149096	1.533274848	1.2638038
B7LCJ8	TY-2482_chromosome	-	1723341	1725617	2953.703521	3918.009303	3102.220566	2757.677987	2176.699624	3033.436068	0.254784126	0.430260728	0.3281816
B7LCJ9	TY-2482_chromosome	+	1725906	1726835	1113.280159	1290.162139	1342.452497	2034.434053	1634.283099	2591.102042	-0.709023595	3.135644436	2.6787871
B7LCK0	TY-2482_chromosome	+	1726876	1728876	1941.237624	2040.350008	2217.918851	4389.553717	3184.974239	5476.19225	-1.026684238	2.415894514	2.0430053
B7LCK1	TY-2482_chromosome	-	1728978	1730018	149.567676	139.8744136	153.9139833	307.9272327	330.3822527	301.4002407	-1.061333407	7.055012016	6.2976693
Q1R8R2	TY-2482_chromosome	+	1729918	1730175	66.56112213	69.14837451	61.89898941	112.6215734	126.4834243	144.4218656	-0.940905731	5.465286156	4.80897

B7LCK2	TY-2482_chromosome	-	1730147	1730719	308.7258501	347.0371781	323.4641119	470.7346155	520.5911478	476.3486892	-0.607696635	2.394041421	2.0222736
B7LCK3	TY-2482_chromosome	-	1730790	1732766	436.5198631	474.2880682	534.4207773	81.78012894	59.04165778	72.34851199	2.752664567	34.31116257	32.712515
B7LCK4	TY-2482_chromosome	+	1732972	1734669	456.8862622	478.7502529	450.1803586	86.51941779	74.64171929	53.1873765	2.607916203	31.7445638	30.215552
B7LCK5	TY-2482_chromosome	+	1734836	1737946	235.7118321	228.7942118	191.7692657	178.2546385	148.2782947	154.0492902	0.396520156	1.517296939	1.2501205
D7Z185	TY-2482_chromosome	+	1737953	1738246	1051.505633	1149.790825	863.781602	1099.844293	2787.263511	728.817226	-0.680940897	1.197837018	0.9724211
B7LCK6	TY-2482_chromosome	+	1738488	1738841	431.2960598	481.5808139	507.2404798	295.2835407	319.4201462	344.5121309	0.588878717	2.253409981	1.8961034
B7LCK7	TY-2482_chromosome	+	1738848	1739972	1372.948867	1432.108097	1436.0290989	940.859446	960.0589244	1129.812532	0.510065617	1.767438018	1.4698202
B7LCK8	TY-2482_chromosome	+	1740003	1740200	385.9562496	373.5004669	350.4079978	162.2253906	242.176958	228.725235	0.854384651	3.795219415	3.2697319
B7LCK9	TY-2482_chromosome	-	1740316	1741011	453.6656534	573.0531334	522.2537669	502.9831113	538.786241	488.2324913	-0.031328945	0.026656598	0.0178128
B7LCL0	TY-2482_chromosome	-	1741088	1743100	1187.58162	1141.53535	1177.852548	1107.898058	1033.767095	1148.429225	0.107431304	0.186394312	0.1374092
B7LCL1	TY-2482_chromosome	-	1743118	1743978	1111.81176	1325.600853	1250.508141	1094.730173	1051.070616	1141.865497	0.140083779	0.377953824	0.2866925
B7LCL2	TY-2482_chromosome	-	1744128	1744523	710.9281492	902.5797737	801.4863397	576.7485285	546.9363074	510.6507325	0.492073128	2.298155476	1.9372262
B7LCL3	TY-2482_chromosome	-	1744526	1744789	445.3205772	634.0754779	550.65096	343.163919	303.9511736	262.1773834	0.370221161	3.920291206	3.864268
B7LCL4	TY-2482_chromosome	-	1744908	1745618	690.4108951	649.0214897	576.7411635	1277.75076	1337.746825	1512.70866	-1.094199148	7.306555862	6.5342646
Q32D89	TY-2482_chromosome	+	1745669	1745917	507.2612513	488.5699056	371.1726169	900.1045894	1056.623313	984.0956582	-1.134817664	6.852773647	6.1051182
B7LCL5	TY-2482_chromosome	-	1745834	1746865	5679.064415	5517.935548	5866.912109	10458.92216	10405.50129	11201.0381	-0.884201749	1.728453721	1.4377668
B7LCL6	TY-2482_chromosome	-	1746885	1747760	6588.442634	6339.711765	6813.700792	8384.47487	7393.179415	8681.588475	-0.28675374	0.377000493	0.286234
C3T0C3	TY-2482_chromosome	+	1747840	1748475	1563.03291	1468.752151	1510.581805	1321.081724	1507.080432	1460.299903	0.112153036	0.166108086	0.1222917
B7LCL8	TY-2482_chromosome	+	1748478	1748945	1643.876412	1476.634739	1501.270611	1642.08352	2082.278894	1895.794567	-0.242646907	0.768371472	0.608704
B7LCM0	TY-2482_chromosome	+	1749818	1751833	36.02918381	33.44085549	28.79226926	39.30987354	42.7956415	39.54224216	-0.321395254	0.633929588	0.4946838
B7LCM6	TY-2482_chromosome	+	1754916	1756493	54.9055894	39.9001224	41.36017006	45.42340354	38.15559284	44.67178308	0.120013027	0.14145185	0.1034206
B7LCM7	TY-2482_chromosome	+	1756534	1758198	76.2899523	74.85851951	73.88210102	70.83495884	77.38815528	69.84017353	0.0439732	0.071017639	0.0510589
B7LCM9	TY-2482_chromosome	+	1758747	1759502	15.98551751	21.67612147	36.49891214	38.57247416	43.70601213	42.0954167	-0.663355537	1.946874226	1.6249879
B7LCN1	TY-2482_chromosome	+	1759941	1761950	80.75362764	66.3194932	92.11281836	82.78908637	84.66063723	73.88298827	0.045853283	4.34E-16	0
B7LCN2	TY-2482_chromosome	+	1761975	1762703	63.94853178	98.04396508	79.18935503	53.54909017	31.6787605	52.36801897	0.712036282	2.723811192	2.318288
B7LCN3	TY-2482_chromosome	-	1762863	1763921	363.3947044	375.9713302	369.0404915	312.2798635	375.9032776	357.8041089	0.098504655	0.166414879	0.1223879
B7LCN4	TY-2482_chromosome	+	1764134	1765594	782.1747812	834.094887	779.6409229	1903.955421	1688.992327	1870.756211	-1.214044558	8.040611971	7.2163224
B7LCN5	TY-2482_chromosome	+	1765618	1765974	623.0775862	622.5744175	504.6723212	858.1257863	1079.454465	812.0627952	-0.695415293	2.799536374	2.3829805
C8U815	TY-2482_chromosome	-	1766118	1766861	1734.984405	1792.324043	1633.245638	762.0458216	990.2275194	886.7288543	0.971014741	5.403674581	4.7511906
B7LCN7	TY-2482_chromosome	-	1766914	1768200	964.7934458	891.7960623	907.750816	352.4471223	361.2515701	418.101546	1.327551311	9.623062217	8.7152041
B7LCN8	TY-2482_chromosome	-	1768289	1768912	2946.770256	2332.587271	2496.210812	1524.168934	1592.600395	1555.087041	0.777241078	2.153427278	1.8073159
B7LCN9	TY-2482_chromosome	+	1769237	1770271	386.8826765	300.4997089	341.295015	1025.683765	849.8333668	1303.154984	-1.5384311	12.72212058	11.664835
B7LCP0	TY-2482_chromosome	+	1770274	1770909	248.2540674	237.6825578	260.8969788	272.8223374	220.0188709	443.5373364	-0.220501054	0.765294312	0.6063224
B7LCP1	TY-2482_chromosome	+	1771083	1773146	2096.130315	2207.152749	2106.740085	1987.254651	1688.940923	2224.365775	0.12147823	0.184114965	0.1359614
B7LCP2	TY-2482_chromosome	+	1773154	1774692	1239.08256	1293.029694	1301.348841	1361.304259	1245.747303	1561.317715	-0.102832745	0.052910226	0.1880676
B7LCP3	TY-2482_chromosome	-	1774737	1776977	159.8726284	175.0999738	182.3554774	153.8306241	141.0358485	136.9692806	0.240282994	0.725843665	0.5719194
B7LCP4	TY-2482_chromosome	-	1777197	1777484	327.0951867	308.2094117	222.5371552	33.39498016	73.07024027	46.24866894	2.481949821	21.79175897	20.464852
B7LCP6	TY-2482_chromosome	+	1778365	1778901	38.15485734	38.50695869	35.52810054	54.55968267	50.93520144	52.65497612	-0.514323252	1.374498653	1.126941
B7LCP7	TY-2482_chromosome	-	1779000	1780574	8045.348325	7321.16502	7550.383073	15815.04564	14781.8623	20213.89936	-1.091686572	2.341825828	1.9765053
B7LCP8	TY-2482_chromosome	-	1780646	1782109	3176.712539	3430.606272	3316.33902	8172.62939	7291.176601	11781.81843	-1.410240504	3.627429432	3.1185332
B7LCP9	TY-2482_chromosome	+	1782271	1783638	1035.826136	948.6496853	998.9193801	1055.130658	1049.225892	1292.882195	-0.134940451	0.439925567	0.3356744
B7LCQ0	TY-2482_chromosome	-	1783641	1783853	184.0413912	153.6040908	188.3332384	325.6583082	308.448918	360.2741113	-0.848486379	5.176018828	4.5403371
B7LCQ1	TY-2482_chromosome	-	1783925	1785394	1448.519949	1447.889282	1495.466894	3651.426644	3182.357631	3905.833313	-1.274147935	3.545323644	3.0461463
B7LCQ2	TY-2482_chromosome	-	1785515	1786690	4305.443166	3638.471005	4125.854576	9293.956896	8680.923638	9886.692378	-1.155919139	2.749572091	2.3394248
B7LCQ3	TY-2482_chromosome	-	1786704	1787321	1985.63402	1729.479742	1879.022021	4298.970266	3662.852436	4633.332614	-1.129417584	2.906608797	2.476945
B7LCQ4	TY-2482_chromosome	-	1787342	1788613	3416.057734	3505.774901	3563.977669	6423.550189	5567.617038	6401.685941	-0.812654488	1.528736862	1.2599731
B7LDA7	TY-2482_chromosome	-	1788727	1789842	3953.878775	3596.772247	3918.53938	6438.57222	6192.878832	6297.879892	-0.700126942	1.27706325	1.0412911
B7LDA8	TY-2482_chromosome	-	1789872	1790882	3648.934584	2907.180922	3288.607204	3412.834057	3566.480785	3771.74889	-0.063338788	0.140213498	0.1032424
B7LDA9	TY-2482_chromosome	-	1791170	1792321	925.9459167	814.9193002	866.1892373	1815.011436	1840.99793	2081.0845	-1.090242797	7.407810811	6.6304201
D3H3M8	TY-2482_chromosome	+	1792438	1792962	2133.114282	1773.067004	1736.826484	766.5399368	1074.892447	931.4604166	0.175044593	5.72252717	5.048608
B7LDB1	TY-2482_chromosome	-	1793054	1795363	362.8086519	337.7338042	325.9944222	450.932177	514.2152046	494.653261	-0.490729185	1.893670484	1.5787171
B7LDB2	TY-2482_chromosome	-	1795367	1800325	2921.798702	2785.145547	3006.124748	3432.903908	2854.742912	3291.609765	-0.125885316	0.153789205	0.1124438
C8TVL6	TY-2482_chromosome	+	1800532	1801374	1002.823937	1017.427279	998.2239165	1410.656567	1332.274499	1435.278672	-0.472279206	1.711183838	1.4225363
ryfA	TY-2482_chromosome	+	1801567	1801871	2178.567502	2022.357143	1961.397328	1284.275613	3198.486089	1241.536343	-0.117961742	0.130870057	0.0956002
B7LDB4	TY-2482_chromosome	-	1801873	1802646	1022.990327	1086.49968	1006.74086	2737.916031	2352.380279	2975.649694	-1.381692878	6.9201764	6.1693158
B7LDB5	TY-2482_chromosome	-	1802791	1804071	2965.953183	2733.874345	3018.680088	6848.289212	5497.46138	8328.591824	-1.186337033	2.952516888	2.5174453
B7LDB6	TY-2482_chromosome	-	1804252	1804449	805.4605123	813.58536	733.9687831	1771.58221	1975.734584	2031.185331	-1.294385195	9.309987019	8.4170542

B7LDB7	TY-2482_chromosome	-	1804464	1804796	1058.19578	1017.942412	1062.334466	2711.419308	2701.887759	3226.893102	-1.420292553	7.4434918	6.6638154
B7LDB8	TY-2482_chromosome	-	1804801	1806648	2574.758966	2624.80973	2630.370395	7446.59862	6579.578828	8213.10777	-1.492950779	4.118307221	3.5685401
B7LDB9	TY-2482_chromosome	-	1806668	1807180	615.5019237	582.6713409	604.7643261	2580.172092	2343.287491	3017.654709	-2.100788392	22.69709725	21.347382
B5Z102	TY-2482_chromosome	-	1807279	1807605	2090.252302	1940.326874	2063.25168	8947.296599	8022.038361	9067.119868	-2.074258361	7.141489415	6.3775663
Q8FF43	TY-2482_chromosome	+	1807535	1808014	2464.851746	2396.044948	2547.911759	12567.23044	10503.71426	12798.13148	-2.259495166	7.845552205	7.0386866
B7LDC2	TY-2482_chromosome	-	1808033	1809244	4375.676661	3921.422105	4304.115716	23984.31375	21243.25132	25324.0821	-2.447919558	8.365201422	7.5187691
B7LDC3	TY-2482_chromosome	-	1809359	1809844	620.6563735	641.2550817	625.8591955	3876.023565	3345.249648	4191.291373	-2.592797106	13.00703019	11.930883
B7LDC4	TY-2482_chromosome	-	1810117	1810854	1774.536522	1877.535883	1834.112946	1623.227705	1823.781956	1720.853419	0.085465095	0.173790138	0.1281288
B7LDC5	TY-2482_chromosome	+	1810973	1811773	1063.648354	953.2545743	857.9769648	1217.203367	1354.13616	1561.290095	-0.488899253	1.899096431	1.5837499
B7LDC6	TY-2482_chromosome	+	1811894	1812772	33.54402499	40.26710736	34.22329471	38.63125861	28.17114122	22.78586044	0.153627651	0.410262697	0.3118991
B7LDC7	TY-2482_chromosome	+	1812966	1814243	457.0626819	432.6798226	389.9291576	555.1173569	424.8546535	573.3436783	-0.289762256	0.747363044	0.5909905
B7LDC8	TY-2482_chromosome	-	1814241	1815377	229.1050849	201.0642113	173.9087262	242.0507238	263.901077	293.1437588	-0.382937711	1.295170327	1.0561106
B7LDC9	TY-2482_chromosome	-	1815540	1816427	94.33167368	78.59078096	91.16183074	118.5368446	139.2581024	144.5508599	-0.532652784	2.473384602	2.0923352
B7LDD0	TY-2482_chromosome	+	1816563	1817921	30.64910007	37.05224387	25.40823161	40.25429718	23.57882749	18.94028378	-0.012249015	0.180855642	0.1335518
B7LDD4	TY-2482_chromosome	+	1819578	1820777	76.9896545	75.17811074	80.61328972	50.84444389	40.89629729	42.23576669	0.782617093	3.414665487	2.9288516
C8UEB1	TY-2482_chromosome	+	1820832	1821296	158.5769624	133.0903555	169.2575196	22.77148276	27.30119926	26.28395953	2.66827239	28.37903995	26.910026
B7LDD6	TY-2482_chromosome	-	1821350	1822219	45.33470259	69.41249908	49.98246682	65.83923471	28.90076202	49.95648854	0.027122337	0.249568475	0.1853883
B7LDD7	TY-2482_chromosome	-	1822234	1823292	43.19734433	44.5538172	55.11686145	64.82804441	41.72853198	53.95456156	-0.165638272	0.272005165	0.2033899
B7LDD9	TY-2482_chromosome	-	1824384	1825892	26.55456716	10.43553281	20.46470265	32.22172132	19.95255957	16.23807746	-0.18668663	0.302308725	0.2261619
B7LDE1	TY-2482_chromosome	-	1826998	1830276	42.99802484	56.54770775	65.7925733	73.80248083	55.40615482	69.64585222	-0.274301646	0.55215614	0.4269636
B7LDE2	TY-2482_chromosome	+	1830394	1831584	166.8752993	162.0213174	142.3367702	107.832596	98.25548615	98.7643709	0.594113548	2.862511901	2.4381894
B7LDE3	TY-2482_chromosome	-	1831654	1832904	6974.591247	5655.297166	6069.433003	14640.15783	13995.59137	18493.12257	-1.258637055	3.012203934	2.5711312
B7LDE4	TY-2482_chromosome	+	1833232	1834419	510.572886	589.2554634	575.7875889	5378.49562	5526.741004	5561.094076	-3.311659638	16.63524374	15.436796
B7LDE5	TY-2482_chromosome	-	1834470	1834805	910.0801496	960.2899341	884.5805826	413.8257131	690.0884841	433.2629338	0.831796831	3.788486384	3.2633179
B7LDE6	TY-2482_chromosome	-	1834869	1836200	396.6700266	302.9745012	327.9845065	592.1563653	583.2775286	720.59871	-0.808253522	4.592735982	4.0052724
B7LDE7	TY-2482_chromosome	-	1836193	1836903	235.0015338	209.0747089	198.5018749	367.0418183	357.6136162	391.9388633	-0.782836371	3.97184159	3.4330699
B7LDE8	TY-2482_chromosome	-	1837071	1838495	424.7631743	407.5678786	434.4881997	355.8315206	436.9651991	306.9792508	0.202838235	0.477656945	0.3654704
sroF	TY-2482_chromosome	-	1838589	1838737	10282.90549	6305.271299	1724.79246	892.8407724	6079.520497	488.4454419	-1.222922426	1.34763268	1.1035943
B7LDE9	TY-2482_chromosome	-	1839074	1842958	1702.904241	1615.303654	1576.513726	4824.365462	3864.84822	5379.16198	-1.505461238	4.462121473	3.8855612
B7LDF0	TY-2482_chromosome	+	1843354	1844769	158.6605479	149.4453591	137.1005487	112.7432727	136.5885163	114.6157933	0.28646773	0.837488292	0.6659821
B7LDF1	TY-2482_chromosome	-	1844772	1845305	548.8723156	571.5484993	542.6248075	166.6129273	175.6248833	190.604583	1.647882758	14.57844999	13.458117
B7LDF2	TY-2482_chromosome	-	1845333	1845965	978.9288729	963.5238054	955.9609886	446.1577792	602.5764509	501.3540348	0.923319899	4.975591773	4.3544688
D3H3S1	TY-2482_chromosome	+	1846102	1847019	357.6022445	282.7802425	356.7014563	272.8166564	272.1752539	193.9464751	0.450007883	1.350795298	1.1062822
B5Z135	TY-2482_chromosome	+	1847054	1847335	50.84784504	49.28474845	50.83060624	19.77740153	16.32483054	19.68147658	1.438307224	6.844262324	6.0982006
B7LDF6	TY-2482_chromosome	-	1848035	1848412	430.5954622	483.7366919	469.4513898	532.0891514	464.9721635	511.7541046	-0.151537355	0.273540951	0.2044797
B7LDF7	TY-2482_chromosome	-	1848415	1849143	1295.198081	1313.842985	1345.59137	1725.793781	1693.570426	1852.263107	-0.400630246	1.418572583	1.1654264
B7LDF8	TY-2482_chromosome	-	1849158	1849883	495.0750933	492.0315488	479.9094075	725.3949961	789.9108869	874.6417537	-0.677716115	3.315281455	2.8392057
B7LDF9	TY-2482_chromosome	-	1849898	1850800	1191.339552	1192.3925	1105.721988	2096.653275	2159.501972	2603.240571	-0.95419261	5.632344782	4.9673163
B7LDG0	TY-2482_chromosome	-	1850800	1851477	910.0993909	858.6273776	960.1155746	1438.787179	1454.244544	1528.668985	-0.659071893	3.222167498	2.7570586
B7LDG1	TY-2482_chromosome	-	1851753	1852724	2513.547582	2418.847838	2337.759636	3269.452927	3842.255298	4058.447505	-0.586170538	1.075706162	0.8684772
B7LDG2	TY-2482_chromosome	-	1852743	1854539	2319.161918	2107.634913	2131.135849	4995.572029	4588.383247	5992.218079	-1.205586215	3.136784295	2.6796544
B7LDG3	TY-2482_chromosome	-	1854740	1855216	536.4845936	398.7480934	474.0418196	1467.64929	1527.061907	1569.468322	-1.622204293	16.18643988	15.004809
B7LDG4	TY-2482_chromosome	-	1855216	1856169	1707.437346	1502.68007	1601.035623	5773.326508	4996.089552	6108.18714	-1.776837346	5.890968912	5.2038261
B7LDG5	TY-2482_chromosome	-	1856172	1856819	3814.710736	3491.473769	4108.851921	12146.78672	11533.04024	12577.19156	-1.62187648	4.630893929	4.0393628
B7LDG6	TY-2482_chromosome	-	1856855	1857427	3165.498503	3343.319279	3362.612826	5635.978633	5837.997793	5509.894608	-0.790917536	1.468651486	1.2077667
B7LDG7	TY-2482_chromosome	+	1857835	1859454	179.3860909	195.3022562	184.8163358	110.8421571	120.1439338	117.0938913	0.673206181	3.333772325	2.8548393
B7LDG8	TY-2482_chromosome	-	1859445	1860179	112.2048049	101.4037964	113.6338955	180.1455188	125.5908628	114.655522	-0.166831903	0.316702435	0.3176222
B7LDG9	TY-2482_chromosome	+	1860311	1861642	864.6841379	757.9799443	750.5101689	958.3071293	867.9994233	1634.136133	-0.437624719	1.760543918	1.4646222
B5Z151	TY-2482_chromosome	-	1861857	1862780	127.064712	152.6302187	113.1950942	111.3936774	116.4495504	137.8432943	0.058099738	0.187664928	0.1383403
B7LDH1	TY-2482_chromosome	+	1862838	1863422	617.8776451	587.0151138	504.7288118	33.06719738	30.03787505	23.99655743	4.228989729	62.92903445	60.801168
B7LDH2	TY-2482_chromosome	-	1863483	1863863	37065.28425	33473.26638	33072.33138	584.9500473	848.4571718	425.7552958	5.775605064	28.27136817	26.81068
B7LDH3	TY-2482_chromosome	+	1864168	1864854	935.4660491	887.2417471	1061.937865	578.9081409	695.3320852	661.7119664	0.637417251	2.462112731	2.082434
B7LDH4	TY-2482_chromosome	-	1864908	1865942	1323.567546	1380.748034	1431.474102	2244.203593	1780.846925	2287.638944	-0.607145652	2.500095841	2.1158311
B7LDH6	TY-2482_chromosome	-	1866149	1866565	184.8301053	167.9380824	166.911147	127.7449422	156.5870692	146.0146486	0.302814498	0.767930354	0.6086839
D3H3U5	TY-2482_chromosome	+	1866586	1867332	173.0927205	123.0548954	142.5028169	219.6917572	236.5815665	278.575156	-0.646079577	3.257021592	2.7871663
B7LDH8	TY-2482_chromosome	+	1867367	1870024	1915.975437	1941.902435	1804.925964	3304.743367	2079.301828	2524.806527	-0.548438213	0.791468589	0.6285966
B7LDH9	TY-2482_chromosome	+	1870141	1871493	1426.059116	1470.810815	1479.599955	2192.811465	2124.947072	2189.18405	-0.575160985	1.892393626	1.5780185

B5Z160	TY-2482_chromosome	+	1871521	1871862	778.8597346	659.6366828	554.7653105	236.0723275	700.5494682	182.7605277	0.815301846	1.953201607	1.6305158
B7LDI1	TY-2482_chromosome	-	1871865	1873160	968.7820207	832.1829893	707.3074027	408.8974822	1065.402554	324.7675111	0.460707812	0.94077523	0.7530146
Q1RFY5	TY-2482_chromosome	+	1873415	1873718	4973.57237	24311.60394	2990.455264	17716.73803	145291.0188	15863.98964	-3.205946344	3.082740756	2.6337136
rrfC	TY-2482_chromosome	-	1873484	1873603	3634.473357	13522.75686	181.8595279	14885.56402	141842.102	5743.031293	-0.4705008558	3.133865124	2.6775524
rrfE	TY-2482_chromosome	-	1873697	1876600	609203.2365	6227013.784	1699509.443	1497727.468	1266154.331	6431116.654	-0.498325093	0.060466432	0.0426374
C1HUN0	TY-2482_chromosome	+	1873922	1874278	74612.80158	768398.5774	207061.7237	47886.1379	30835.71308	336148.2498	1.035778652	1.183482057	0.9612525
C1HUN1	TY-2482_chromosome	+	1874282	1874734	99139.66984	1106833.837	265142.467	88866.57121	50833.18689	532582.8863	0.755250994	0.924109013	0.7385422
C1HUN3	TY-2482_chromosome	+	1874811	1875014	51123.16566	630282.3218	155668.9634	126851.6975	103426.9367	612441.3708	-0.431103573	0.004964863	0.0027707
Q1R3T8	TY-2482_chromosome	+	1876072	1876374	125635.6369	1030129.284	340746.3043	427454.9302	367651.3425	1694377.165	-1.050096476	0.616534414	0.481455
gltV	TY-2482_chromosome	-	1876794	1876869	1422.661461	1483.869429	867.3283654	284.5476802	975.5071479	200.0173474	1.256736955	3.769887849	3.2458615
rrsD	TY-2482_chromosome	-	1877041	1878582	833689.7174	3695767.843	1808646.942	198145.9638	229378.1909	747924.2861	2.298295063	4.417750378	3.8461862
Q57H85	TY-2482_chromosome	-	1877144	1877461	212646.8639	948995.6734	431918.4818	14144.89361	17761.09105	87870.14377	3.660831578	7.539591043	6.7549637
E9WNY3	TY-2482_chromosome	+	1878436	1878669	92573.83156	428036.6297	185617.7984	36531.78848	55623.1457	102122.9154	1.61664485	3.204215713	2.7418748
B7LDI2	TY-2482_chromosome	-	1879029	1881599	5363.799096	4629.066713	4095.698977	3417.059046	3049.524979	3317.959503	0.515779563	0.815885165	0.6490205
B7LDI3	TY-2482_chromosome	-	1881732	1882460	832.3773163	788.7182577	815.3727278	915.9594546	889.9647482	1085.06051	-0.207263615	0.700760737	0.5503486
B7LDI4	TY-2482_chromosome	-	1882460	1883437	1194.211713	1254.306911	1247.191961	1275.912217	1182.074867	1473.170232	-0.073036435	0.176121222	0.1298771
B7LDI5	TY-2482_chromosome	+	1883572	1884306	2087.904537	2166.145509	2129.231193	2505.722107	2924.020677	2994.182002	-0.378486214	0.599889446	0.4664952
Q1R8C8	TY-2482_chromosome	-	1884502	1885035	19853.61806	20912.3612	18511.45141	12607.80925	17885.59043	7125.157442	0.564098935	0.881567397	0.7038077
B7LDI8	TY-2482_chromosome	+	1885171	1886328	447.086086	451.4008553	509.2595816	513.5623039	467.6993812	543.1896477	-0.084746447	0.242071943	0.1796661
B7LDI9	TY-2482_chromosome	-	1886377	1887495	355.8000693	411.3109195	384.2345024	448.2616562	513.294915	514.3096879	-0.365636194	1.104981437	0.8931039
B7LDJ0	TY-2482_chromosome	-	1887509	1888576	291.3494951	377.2909713	349.324752	413.5137145	403.0770907	515.3100866	-0.396893439	1.178730135	0.9576103
B7NRQ4	TY-2482_chromosome	+	1888657	1889148	116.7777616	113.0648798	98.08994474	32.59381025	44.7106273	31.82466303	1.564307952	11.36663722	10.372873
B7LDJ2	TY-2482_chromosome	+	1889301	1889816	529.4449883	596.0606803	467.7448313	148.5280115	207.5752739	198.4946209	1.505528113	11.54591523	10.545534
B7LDJ3	TY-2482_chromosome	+	1889809	1891032	465.1122386	516.5577025	430.2047806	259.2355582	290.3461143	269.7590458	0.744136817	3.873226285	3.3426029
B7LDJ4	TY-2482_chromosome	+	1891051	1891530	216.1056293	243.2434162	190.4599673	163.2620322	190.2400461	182.8391158	0.234503159	0.7264227	0.572227
B7LDJ5	TY-2482_chromosome	-	1891613	1891957	17219.71938	17463.95608	16959.38067	7562.230793	7294.043534	7371.430445	1.204434769	2.611010445	2.2148273
B7LDJ6	TY-2482_chromosome	-	1892002	1892766	37703.76052	37210.62367	38973.71496	15470.58026	12791.56972	16381.78014	1.368936038	2.889722669	2.4618466
Q31XD7	TY-2482_chromosome	-	1892800	1893354	26956.57194	26217.21008	28062.70266	12682.71119	11122.55944	13603.22978	1.145050048	1.8132896	1.8132896
B7LDJ8	TY-2482_chromosome	-	1893367	1893612	14078.13289	13373.94451	13209.87571	6050.39384	5700.512443	6352.984166	1.178126959	2.507602371	2.1228764
B7LDJ9	TY-2482_chromosome	-	1893752	1895110	3818.503367	3586.153218	3752.773152	4917.042517	4216.187747	4851.901143	-0.314178017	0.427710195	0.3263527
B7LDK0	TY-2482_chromosome	+	1895202	1896065	335.1186339	304.6457454	316.2007506	353.1791618	354.8871132	394.515258	-0.1710497	0.511035286	0.3933937
B7LDK1	TY-2482_chromosome	+	1896179	1897372	495.8639739	491.8088648	454.7199238	719.5179899	799.9475566	820.8279246	-0.69041142	3.251730211	2.7832763
A1AEE4	TY-2482_chromosome	+	1897397	1898146	3559.604332	3840.186771	3728.9937	6198.420967	6100.125335	4768.24638	-0.670736441	1.008832114	0.8100837
B7LDK3	TY-2482_chromosome	+	1898146	1899021	765.1065777	726.6664966	713.6007233	645.5634152	679.850584	590.9359209	0.192626872	0.508675321	0.3913624
B7LDK4	TY-2482_chromosome	+	1899110	1900768	782.310664	731.9911057	736.7407771	491.7795186	500.5131054	524.8552688	0.588235457	3.253722778	1.9864116
B7LDK5	TY-2482_chromosome	+	1900920	1901258	1052.238824	1091.445079	942.5465235	654.1556526	1152.448469	651.7862244	0.302501786	0.843279073	0.6710718
Q5CCH1	TY-2482_chromosome	-	1901326	1901631	606.4258623	653.6886204	604.0073217	268.9123281	354.1304016	286.9691634	1.022716974	6.284086352	5.5736425
B7LDK7	TY-2482_chromosome	-	1901606	1902079	1119.537591	1059.259013	1113.169483	519.7378675	732.7674281	531.8125728	0.906503512	4.927798811	4.3114222
B7LDK8	TY-2482_chromosome	+	1902211	1902690	1274.238729	1420.813046	1233.783383	447.9137277	597.933386	666.5815323	1.220816534	8.259398578	7.4176183
ssrA	TY-2482_chromosome	+	1902908	1903270	422043.0633	364736.4543	389974.2791	187408.7999	576372.8788	121623.4248	0.420460504	0.368611926	0.2791082
B7LDK9	TY-2482_chromosome	+	1903476	1904714	605.803985	564.6993	584.9379001	683.075871	651.5812916	640.8028375	-0.166345	0.403258775	0.3058489
B7LDL0	TY-2482_chromosome	-	1904859	1908602	248.8097625	260.9634612	316.6500737	399.5986104	367.8281066	128.9104423	-0.21749686	0.162827642	0.1194321
B7LDL1	TY-2482_chromosome	+	1909070	1912918	1935.447143	1849.806976	1863.784461	1907.41312	1679.014827	1602.643393	0.100361935	0.252496148	0.187764
B7LDL2	TY-2482_chromosome	+	1912967	1913710	489.8055595	456.9658974	527.0486546	567.9062117	503.282967	376.8512251	-0.001486092	0.041916601	0.0287268
B7LDL5	TY-2482_chromosome	-	1914150	1915028	79.2568381	77.59658335	79.88939684	44.29559154	65.93655722	2.341260665	0.936805477	1.867556948	1.5567109
B7LDL7	TY-2482_chromosome	+	1915867	1916211	46.03857023	69.89660643	56.071983	40.70130917	44.64278287	35.76195366	0.403755308	1.262945414	1.0289709
C8TWQ4	TY-2482_chromosome	+	1916334	1917077	79.20622344	93.75450912	72.3335876	41.1191915	48.25501616	48.58869201	0.786314557	3.293798219	2.9108333
B7LDM7	TY-2482_chromosome	+	1923779	1924753	48.56472903	44.76361751	53.65228052	73.07065765	57.23313633	72.23321704	-0.428199486	1.29715735	1.0577675
B7LDM8	TY-2482_chromosome	+	1924776	1926041	152.3717888	162.6793986	183.8052016	250.5444158	180.0486015	236.6729945	-0.41596129	1.318929168	1.0782162
B7LDM9	TY-2482_chromosome	+	1926067	1927512	451.4598927	545.085405	513.0331241	1037.193996	722.3934133	1109.960157	-0.952142469	4.187064601	4.1174052
B7LDN0	TY-2482_chromosome	+	1927529	1928806	503.7928941	629.6852462	565.1301824	1078.799256	640.4436235	1070.518291	-0.770303115	2.866041836	2.4412135
B7LE81	TY-2482_chromosome	+	1929120	1930517	63.56948244	57.60483576	66.12539952	168.4606764	117.2461266	160.3376825	-1.22965713	7.838146675	7.0318906
D3H4S4	TY-2482_chromosome	+	1930523	1931200	414.3155039	387.1586524	421.2963455	289.5085494	356.8846156	246.478911	0.457437543	1.524858569	1.2569773
B7LE82	TY-2482_chromosome	-	1931207	1931653	1569.683469	1561.207443	1598.441222	1245.625037	1632.819319	1066.170811	0.249295082	0.649689323	0.5076716
Q1R837	TY-2482_chromosome	+	1931725	1931907	576.3989061	641.1611518	657.0563729	145.3675051	431.0489087	162.6558586	1.360290062	5.189045685	4.5517158
B7LE84	TY-2482_chromosome	+	1932078	1932374	79.36331812	81.59429761	64.34415175	36.63527317	43.74689814	35.69143117	0.90962564	4.276773694	3.7171087
B7LE85	TY-2482_chromosome	+	1932387	1932908	182.5154697	175.3976236	172.8911613	177.6876683	234.0194584	176.5653412	-0.144001912	0.325110116	0.244729

B7LE86	TY-2482_chromosome	-	1932961	1933362	204.0292291	211.5879096	231.2554105	49.17847259	49.12231619	52.55858788	2.120642569	23.62176629	22.236579
B7LE87	TY-2482_chromosome	+	1934030	1934476	248.3135684	225.1037848	252.2979815	147.1912724	245.9542359	162.1501024	0.435760169	1.088569544	0.879627
B7LE88	TY-2482_chromosome	-	1934519	1934860	153.2830053	149.8190047	157.1719694	185.6731527	270.5647184	132.3536599	-0.378841293	0.885838099	0.7077917
B7LE89	TY-2482_chromosome	+	1935000	1935338	1321.722781	1922.149585	1762.96739	1003.486564	1508.998488	1336.576423	0.364625114	1.043821691	0.8400822
B7LE90	TY-2482_chromosome	+	1935589	1935831	7.515535508	3.864658693	8.045492781	27.73531788	55.8090113	25.53164607	-2.344959271	9.31551981	8.4218427
B7LE91	TY-2482_chromosome	+	1935831	1936238	14.3207962	14.76417513	9.576786198	48.38844716	62.90559753	46.30990002	-2.085356168	10.28809802	9.3472541
B7LE92	TY-2482_chromosome	+	1936214	1938355	93.88394803	150.7761773	100.0240954	268.099426	212.8338085	274.7533393	-1.26980467	6.330716273	5.6163465
B7LE93	TY-2482_chromosome	+	1938368	1939324	74.26533407	69.08207583	53.02175573	129.4286905	104.5362242	143.0870333	-0.961639961	4.828132733	4.2176172
Q0TEJ8	TY-2482_chromosome	+	1939445	1939675	60.64263442	67.91391149	46.41116489	79.51541541	123.2650241	26.2149055	-0.557120348	0.56571316	0.4378464
B7LE94	TY-2482_chromosome	+	1939682	1940881	1698.28882	1654.349517	1818.421161	3741.899219	4067.9641	3789.051862	-1.141417375	2.961144395	2.5247752
B7LE95	TY-2482_chromosome	+	1940877	1941938	1591.584251	1406.990853	1372.430826	2325.957954	2277.800762	2711.196616	-0.708402805	2.338808167	1.9739288
B7LE96	TY-2482_chromosome	+	1941998	1942987	2624.072815	2768.861693	2752.531567	3545.351441	3560.953247	4662.032744	-0.492860533	0.848207743	0.6754343
B7LE97	TY-2482_chromosome	+	1943182	1944363	146.1747868	92.98203998	128.1573169	219.3502923	216.5893017	214.4990932	-0.731628737	3.980511958	3.4410817
B7LE99	TY-2482_chromosome	+	1944490	1945224	1560.867604	1340.664726	1483.562487	732.5183282	897.3595837	881.3440199	0.869906831	3.960322571	3.4231928
B7LE98	TY-2482_chromosome	+	1945217	1945549	461.3883971	481.2895732	446.8514505	313.8451038	285.673313	356.2433665	0.540041992	2.086167372	1.747591
B7LEA0	TY-2482_chromosome	+	1945643	1946170	1054.386968	1059.013472	1116.537598	1218.648891	1353.264507	1360.268602	-0.255913047	0.793591677	0.6303105
B7LEA2	TY-2482_chromosome	+	1946300	1947469	283.0223301	217.7286775	223.5835909	546.2592023	491.3205062	665.2548441	-1.167358324	7.757107458	6.956299
B7LEA3	TY-2482_chromosome	+	1947489	1949024	448.7577043	422.8840329	428.4309577	680.6166407	773.5257628	899.5021967	-0.801741494	4.453275709	3.8780856
B7LEA1	TY-2482_chromosome	-	1949094	1949606	2811.097689	2710.42186	2941.444623	4077.376914	4603.983442	4462.540865	-0.600133397	1.099203468	0.8884096
sraD	TY-2482_chromosome	+	1949674	1949748	454.5352411	451.7722132	545.6969561	474.3616328	383.029587	460.3636724	0.169642944	0.669722546	0.229771
B7LEA4	TY-2482_chromosome	-	1949759	1951312	3029.368013	3291.565479	3235.829524	5553.323584	4924.212065	5755.664469	-0.772723302	1.417466141	1.1646607
B7LEA5	TY-2482_chromosome	-	1951388	1951813	724.579952	709.0957776	796.4237071	836.0384652	806.2846815	819.6578924	-0.121608869	0.339130131	0.2552033
B7LEA6	TY-2482_chromosome	-	1951813	1952376	816.6478	735.3917308	864.4328168	742.0371393	773.5596803	736.8208159	0.142337338	0.225062891	0.1663635
D7Z1T1	TY-2482_chromosome	-	1952409	1952687	457.049948	430.2504094	399.2187865	334.4131565	585.5117006	295.4001796	0.067980439	0.131944559	0.0964682
argV	TY-2482_chromosome	-	1952657	1952733	424.9339005	396.6426657	353.5853685	329.7961437	579.1338639	300.6239701	-0.058150081	0.062648235	0.0440821
argV	TY-2482_chromosome	-	1952797	1952873	56.72649782	68.2680338	55.94218622	75.72795427	134.0988421	63.82201984	-0.663769577	1.62084336	1.3429738
argV	TY-2482_chromosome	-	1952937	1953013	18.55684406	22.67431141	21.14535687	28.0192531	51.31142107	12.71662436	-0.646842207	0.914828732	0.7308637
argV	TY-2482_chromosome	-	1953079	1953155	288.8474423	243.217451	257.3988299	354.2449346	564.5357856	298.0185986	-0.609979919	2.081205246	1.7430436
argV	TY-2482_chromosome	-	1953220	1953296	131.2006359	92.17524395	108.8507633	210.6344789	296.9259615	158.5867661	-0.970155123	4.617944581	4.0275266
Q83SY0	TY-2482_chromosome	+	1953359	1953726	3804.756431	3665.498418	1816.487036	1656.033507	4228.751455	1277.312213	0.248496699	0.412143299	0.313541
argV	TY-2482_chromosome	-	1953360	1953436	956.6905157	875.7844018	770.8069855	757.9000021	1511.159663	600.8741751	-0.169284579	0.234013849	0.1737286
serV	TY-2482_chromosome	-	1953440	1953532	3771.108281	3631.990655	1786.76829	1608.078164	4169.609583	1233.911277	0.262999893	0.43219255	0.3298726
B7LEA8	TY-2482_chromosome	-	1954271	1956898	11217.54132	11179.35102	11594.42533	20660.01402	17249.00569	21966.56567	-0.801143612	1.343739755	1.1003736
B7LEB0	TY-2482_chromosome	-	1957029	1957526	190.7855	168.4104302	183.5522704	198.1246018	216.6012864	220.9399012	-0.181813834	0.566701835	0.4385796
B7LEB1	TY-2482_chromosome	-	1957772	1958830	8459.551699	8003.813914	8702.638816	11702.97077	10621.16637	11166.96443	-0.398810408	0.536690658	0.4146603
B7LEA9	TY-2482_chromosome	-	1958913	1959407	250.6600004	183.0122629	263.10718	360.910488	268.3451423	323.6191856	-0.379034532	1.455273577	1.1958021
B7LEB2	TY-2482_chromosome	-	1959555	1960637	183.1829301	192.7859601	178.8087404	370.9527001	332.0684883	437.7182107	-1.033598993	6.23963474	5.5325971
B7LEB3	TY-2482_chromosome	+	1960893	1961453	173.5089628	177.4027681	162.2541609	462.1266077	318.3655582	413.0289552	-1.259304689	7.697327271	6.9013045
B7LEB4	TY-2482_chromosome	+	1961453	1962409	242.3261866	234.652653	233.6569108	908.3299913	544.9309285	724.9351125	-1.657188318	12.15689271	11.124913
B7LEB5	TY-2482_chromosome	+	1962423	1962791	98.01556934	86.10066887	98.45289111	403.1916228	267.4096649	321.1122427	-1.816125911	15.08213357	13.941302
B7LEB6	TY-2482_chromosome	+	1962798	1963574	241.5346432	215.2418017	265.0062008	888.2430623	714.3115888	763.1698196	-1.689352104	15.22430506	14.082155
B7LEB7	TY-2482_chromosome	+	1963682	1964038	50.5806805	76.97168566	53.89493348	108.5881195	85.44856093	102.5585354	-0.834182724	2.775747496	2.3619145
B7LEB8	TY-2482_chromosome	+	1964108	1964878	511.4058012	533.3763352	561.3120407	583.2599582	488.5939454	611.5438478	-0.056742057	0.127767574	0.0934769
B7LEB9	TY-2482_chromosome	+	1964874	1965836	770.2422509	770.3663135	781.7182979	928.8498226	727.0134273	901.0668511	-0.143913433	0.318343701	0.2390102
B7LEC0	TY-2482_chromosome	-	1965839	1967350	393.3915133	391.4228385	368.9286075	229.3902137	192.8566622	215.7511426	0.832290032	4.549450536	3.9649213
B7LEC1	TY-2482_chromosome	+	1967537	1968973	30.1792807	21.65400894	22.22725727	37.99410387	25.40816823	24.00469728	-0.266502538	0.330518951	0.2484497
B7LEC2	TY-2482_chromosome	+	1968973	1970103	39.06437261	33.81085322	30.78553989	39.06160557	36.44025174	24.16998892	-0.001286832	0.0507854096	0.040973
B7LEC3	TY-2482_chromosome	-	1970335	1972584	403.82224	396.9677304	404.715825	151.3925729	113.6496501	134.2006527	1.57717738	13.74213341	12.645081
B7LEC4	TY-2482_chromosome	-	1972740	1973264	17.88263546	24.04572964	15.56572003	34.75813581	32.71895549	38.02910387	-0.959987737	2.496977863	2.1131739
B7LEC5	TY-2482_chromosome	-	1973416	1974426	186.7646805	225.5202562	202.6389917	212.0518992	200.1532565	233.9829514	-0.098943671	0.141915606	0.1037428
B7LEC6	TY-2482_chromosome	+	1974683	1976137	37.33635001	36.56634154	40.36573455	60.05173088	44.49367254	53.92731973	-0.471554383	1.227319369	0.9972414
B7LEC7	TY-2482_chromosome	+	1976149	1977570	115.0988603	127.9521865	112.0817972	118.397309	98.20927612	111.8045267	0.065538934	0.220044136	0.1627585
B7LF78	TY-2482_chromosome	-	1977744	1978721	518.8324912	579.175659	575.1279101	581.748652	499.4881543	715.1843822	-0.083080834	0.198317616	0.1462425
B7LEC9	TY-2482_chromosome	-	1978969	1979451	75.63208382	81.05222872	57.63605095	86.92502739	77.33595514	71.27520519	-0.232288829	0.28877391	0.2157905
B7LED0	TY-2482_chromosome	-	1979459	1980229	97.62872677	123.2214	132.3543807	145.1261732	133.719895	153.7889078	-0.293895113	0.832853612	0.662734
B7LED1	TY-2482_chromosome	-	1980257	1980724	179.4893244	156.0799659	193.681768	146.1845765	152.8483061	182.5477515	0.223660085	0.314749897	0.2362152
B7LED2	TY-2482_chromosome	-	1980720	1981127	69.85614767	70.31426804	38.84492661	59.82838185	46.29137432	66.78111748	-0.030849739	0.046941406	0.0325265

D3GRQ1	TY-2482_chromosome	-	1981127	1981891	50.36803658	41.62187545	36.63769513	50.24274449	33.54330599	45.95451331	-0.02874205	0	0
B7LED5	TY-2482_chromosome	-	1982446	1984152	59.86059262	59.19155013	55.32420418	96.08213277	61.6900191	107.3979929	-0.600196513	1.912494951	1.595572
B7LED7	TY-2482_chromosome	-	1985099	1986922	69.6118041	78.16314011	53.66661428	64.61825737	52.72428461	55.3653927	0.118717099	0.396010734	0.3002648
B5Z389	TY-2482_chromosome	+	1988315	1988674	320.2761987	291.1471152	258.484805	37.70483107	29.05493864	31.66780876	3.104396332	40.6524347	38.917368
B7LEE1	TY-2482_chromosome	+	1988681	1989550	1534.766724	1225.252443	1422.1755	166.1876934	120.8567091	200.7113284	3.179571841	40.86007244	39.109212
B7LEE2	TY-2482_chromosome	+	1989544	1989813	451.8122369	407.6231722	413.2036636	52.06299137	32.58337723	58.75446821	3.176537598	39.57135603	37.85153
B7LEE3	TY-2482_chromosome	+	1989816	1990934	1093.349471	1081.931781	1060.259508	207.7608594	145.4395896	216.7406584	2.50525053	28.18232257	26.729803
B7LEE4	TY-2482_chromosome	+	1990976	1991941	582.6343366	506.2288238	588.3908468	181.2017464	171.9495461	195.8744039	1.664947867	13.89785942	12.793446
B7LEE5	TY-2482_chromosome	+	1992018	1994093	240.7069738	274.4964319	236.1833686	329.5068097	319.3623533	391.732981	-0.486603742	1.62703434	1.3486232
B7LEE6	TY-2482_chromosome	-	1994136	1994486	48.45581875	51.81551045	57.62889232	478.49568	655.4356291	425.4372718	-3.301335222	38.56780401	36.862701
B7LEE7	TY-2482_chromosome	+	1994773	1997331	774.98351	589.420372	725.6878257	1486.631008	1283.935942	1959.605616	-1.066350524	6.803015868	6.0600476
B7LEE9	TY-2482_chromosome	-	1998150	1998944	269.0759456	298.3963865	292.5154912	261.1843841	292.1588909	278.92253	0.042992232	0.085175397	0.0623272
B7LEF0	TY-2482_chromosome	+	1999110	2000015	97.26882667	92.96112891	91.01056085	157.8959726	139.2174171	127.8765347	-0.6265813	2.522999354	2.1361915
B7LEF1	TY-2482_chromosome	+	2000015	2001274	142.895959	122.4442403	145.3799529	204.9454239	165.5023257	228.5687422	-0.482561272	2.025662319	1.6936756
B7LEF2	TY-2482_chromosome	+	2001274	2001909	72.61629143	58.32164912	74.10229024	108.1009102	67.16225538	103.6915977	-0.394504315	1.205716928	0.9785386
B7LEF3	TY-2482_chromosome	+	2001917	2002690	117.0631233	79.27629812	90.26888528	114.4574857	89.98929477	113.0087464	-0.090662966	0.283271109	0.2116364
B7LEF4	TY-2482_chromosome	+	2002782	2004143	65.96092355	57.2651568	56.61886267	58.90527117	57.43211378	28.40319947	0.241473627	0.62477647	0.4875578
B7LEF6	TY-2482_chromosome	-	2004436	2005860	30.10895532	25.93415772	22.15426674	39.22263619	25.2690231	63.46781366	-0.642485165	1.584547273	1.31074
C8TFY8	TY-2482_chromosome	+	2006600	2007004	107.5768003	132.1061023	101.3863222	54.77926071	73.79615459	65.77132815	0.764034109	3.712359761	3.1941502
B7LEF8	TY-2482_chromosome	-	2007131	2008120	1997.087803	2854.184242	2406.513264	9976.016554	7407.686666	9228.952728	-1.969240338	5.637192687	4.9712833
B7LEG0	TY-2482_chromosome	-	2008186	2009322	2039.634748	3162.714459	2582.136993	8779.218082	7860.968088	8558.048854	-1.795697684	4.801029382	4.1924501
B7LEG1	TY-2482_chromosome	-	2009465	2010088	1103.614659	1335.448491	1167.183582	1356.19142	1220.31372	1383.920791	-0.18278201	0.291488648	0.217942
B7LEG2	TY-2482_chromosome	-	2010085	2010843	1399.229217	1362.827374	1353.413724	1884.232001	1637.10028	1923.290623	-0.400342362	1.353086378	1.1082127
B7LEG3	TY-2482_chromosome	-	2010827	2011873	1512.916648	1453.073672	1452.447659	2187.514608	1881.870683	2516.388093	-0.549400758	1.731221985	1.43399772
B7LEG4	TY-2482_chromosome	-	2011873	2012349	530.3577585	489.6420405	460.6260152	906.1716199	777.9628916	1112.497282	-0.886212779	4.860296822	4.247056
B7LEG5	TY-2482_chromosome	-	2012352	2013059	534.6422779	533.6076996	567.2303837	1066.418567	932.6840109	1284.897541	-0.963874678	6.2135941	5.5079735
B7LEG6	TY-2482_chromosome	-	2013081	2013389	488.989053	525.1352165	508.3584962	599.3875532	709.920805	604.0342095	-0.340811606	0.958034188	0.7669002
B7LEG7	TY-2482_chromosome	-	2013586	2013906	166.4775597	229.5495957	184.72479	50.06093125	64.61989306	75.89400263	1.585915829	12.30282006	11.262568
B7LEG8	TY-2482_chromosome	-	2013959	2014561	868.680823	1144.464043	1004.18631	62.10825161	50.01193141	46.32389116	4.147295113	65.29731934	63.129335
B7LEG9	TY-2482_chromosome	-	2014564	2015988	3695.776974	3814.614877	3689.989951	233.6424412	184.6888022	171.3741835	4.187138197	44.06841061	42.284126
B7LEH0	TY-2482_chromosome	-	2015993	2016898	2311.596574	2233.538866	2242.763477	111.3937654	82.71975362	92.20066343	4.538839662	76.94829385	74.567702
B7LEH1	TY-2482_chromosome	+	2017150	2018184	169.5283394	222.0788563	179.410617	278.6835665	256.630419	230.5054324	-0.52633709	1.410933491	1.1593186
B7LEH2	TY-2482_chromosome	-	2018458	2018748	29.8280107	37.23628102	28.17307198	29.39050037	24.45459227	41.55473413	-0.023950422	0	0
B7LEH3	TY-2482_chromosome	-	2018751	2019668	56.02439833	45.8074235	68.43150555	96.19562566	100.0393737	133.6874271	-0.818006432	4.37825397	3.8098714
B7LEH4	TY-2482_chromosome	-	2019668	2020453	74.16329959	704.01270987	58.38666762	91.2460162	96.24640162	169.2629758	-1.08276085	4.947054732	4.3283114
B7LEH6	TY-2482_chromosome	-	2021057	2022109	88.18582714	92.56381261	89.75586828	243.7136397	167.2416393	296.6683011	-1.366804512	8.68901423	7.8276282
B7LEH7	TY-2482_chromosome	-	2022124	2022657	42.58311368	37.36500981	48.43596202	103.7108686	76.2634783	134.8326585	-1.197425759	6.560938688	5.8330509
B7LEH8	TY-2482_chromosome	-	2022657	2024285	90.79635259	77.38767372	63.59602113	169.3893337	136.3616923	207.3452221	-1.127969967	6.523907786	5.7990606
B7LEH9	TY-2482_chromosome	-	2024317	2027015	131.4421482	141.8922947	155.3623713	211.1620499	160.9772143	185.5344376	-0.393584986	1.222813814	0.9937045
P11901	TY-2482_chromosome	-	2027370	2028479	228.8239963	246.4035313	210.3737511	163.9116395	214.9083047	160.7917647	0.307531777	1.001223805	0.8033767
B7LEI1	TY-2482_chromosome	-	2028976	2029707	1876.216172	1850.308532	2146.683293	95.34716374	82.75430962	92.06930505	4.464516172	74.57375828	72.294624
B7LEI2	TY-2482_chromosome	-	2029784	2031493	4937.257382	4724.493732	4848.743613	198.7186568	136.3546286	184.0534681	4.7974766	30.04753484	28.543525
B7LEI3	TY-2482_chromosome	-	2031496	2033292	3577.049207	3261.438764	3184.807331	142.2064294	92.64926694	139.1975542	4.741426019	77.81218948	75.383293
B7LEI4	TY-2482_chromosome	+	2033608	2033970	128.2167981	94.300796	101.4827335	101.5890307	127.5182617	97.62212546	0.030077579	0.007413236	0.0047406
B7LEI5	TY-2482_chromosome	+	2034051	2035319	332.0522386	342.1190055	307.474241	417.6094746	304.7733366	313.3819129	-0.150127697	0.149421187	0.1087511
B7LEI6	TY-2482_chromosome	+	2035313	2035570	57.06158117	36.02366917	53.62550115	82.68540572	61.83538404	53.06000053	-0.392580507	1.028557594	0.8269425
B7LEI8	TY-2482_chromosome	+	2035590	2036162	76.88588687	89.37402568	81.82493884	120.8070365	87.29186635	81.94215643	-0.318218136	0.557405742	0.4311964
B7LEI7	TY-2482_chromosome	-	2036316	2037173	38.01753951	51.76484815	34.65788877	41.06728544	29.95270111	33.00906711	0.12036813	0.390526652	0.2958471
B7LEI9	TY-2482_chromosome	-	2037173	2037949	18.7008255	25.83706018	12.72333377	42.49189992	34.57554765	25.46379481	-1.046540349	2.137948419	1.7935216
B7LEJ0	TY-2482_chromosome	-	2037930	2039264	18.69155493	20.17988438	17.01850984	47.67072949	36.34377215	35.74801703	-1.171255704	3.766889172	3.2433121
B7LEJ1	TY-2482_chromosome	-	2039361	2040812	34.485253	27.10316257	33.74089296	77.49117707	47.18472605	56.73365706	-0.923175019	3.321674606	2.8450289
B7LEJ3	TY-2482_chromosome	+	2041986	2043260	101.3972478	156.1799649	105.3013492	58.78700623	83.88071023	58.18926851	0.724713442	3.508767375	3.014072
B7LEJ4	TY-2482_chromosome	+	2043290	2044765	121.1265546	144.6749255	100.5538198	97.34582205	63.6125751	58.34712242	0.572510719	2.827747146	2.4066986
E7JX4	TY-2482_chromosome	+	2045408	2045986	97.85332479	123.9933547	89.4353275	50.43359205	126.9669268	48.12123431	0.382168516	0.941547501	0.7363403
B7LEJ5	TY-2482_chromosome	-	2046327	2046995	822.400654	1000.736207	903.1566277	674.1623407	832.7847135	721.0611768	0.260051048	0.848220136	0.6754343
Q8FEG8	TY-2482_chromosome	+	2048175	2049401	35950.90424	33002.23109	35903.62458	58362.63891	53922.33263	57021.37623	-0.670389818	0.996310938	0.7992135
B7LEK0	TY-2482_chromosome	-	2049609	2051243	10548.35663	9770.581721	9840.049341	10671.21045	8694.504861	11602.08566	-0.01618501	0.03487487	0.0237391

B7LEK1	TY-2482_chromosome	-	2051474	2052262	670.5497682	792.8429664	807.6364622	1060.554342	995.5349524	1157.545959	-0.502050622	2.006010482	1.6766725
B7LEJ9	TY-2482_chromosome	-	2052336	2052668	333.2585273	403.7403029	405.5450317	415.0803318	373.0518105	432.6949423	-0.110157927	0.191777739	0.1414927
Q1R7R0	TY-2482_chromosome	+	2052585	2052944	454.5312069	499.4586421	502.5126369	501.854806	427.6380379	505.0719446	0.011824468	0.036951256	0.0250864
B7LEK2	TY-2482_chromosome	-	2052997	2055228	2782.514847	3188.243928	3103.152725	4682.201139	3276.026359	4349.282344	-0.477352875	0.638073971	0.4980312
B7LEK4	TY-2482_chromosome	-	2055279	2056567	813.321145	1052.198283	991.1059996	1322.169547	1097.429555	1287.898164	-0.423951651	1.134559753	0.9191027
C8UAB8	TY-2482_chromosome	+	2056634	2059387	859.2493166	832.5150232	881.4656332	669.2701819	624.2596431	651.2435894	0.413203994	1.424081597	1.1705944
B7LEW6	TY-2482_chromosome	-	2059625	2060962	145.0992098	141.8423084	139.8972834	164.1057584	164.7020597	172.2931794	-0.223973132	0.620231358	0.4841118
C8TG35	TY-2482_chromosome	-	2060986	2062323	123.5336475	108.8415645	109.4657775	70.84834521	62.70368891	83.86856929	0.691280833	2.900441157	2.4717998
B7LEW9	TY-2482_chromosome	-	2062328	2063677	113.3836007	81.12283194	76.84239812	82.3563248	59.94101459	78.81048086	0.313891328	0.720354833	0.5673789
B7LEX0	TY-2482_chromosome	-	2064115	2064561	922.2214956	786.8831991	870.856828	954.7832238	999.2465933	977.5273282	-0.144045534	0.473251877	0.3620512
B7LEX1	TY-2482_chromosome	-	2064582	2065361	211.085512	171.3741711	189.4356336	214.8782857	196.5391222	198.7426406	-0.0664339	0.174473835	0.1285471
B7LEW7	TY-2482_chromosome	-	2065364	2065690	110.0312742	98.55427004	101.5994657	103.1255917	95.51018486	105.1851762	0.048973154	0.054043181	0.0382319
csrB	TY-2482_chromosome	-	2065733	2066092	13504.48284	26776.81217	22306.21432	17720.84549	17120.71231	22478.12193	0.046915161	0.115377588	0.0845231
B7LEX3	TY-2482_chromosome	-	2066315	2066857	563.8760498	564.0687444	543.2741918	136.2240617	158.3491707	176.0089243	1.860547295	17.28500668	16.071265
B7LEX4	TY-2482_chromosome	+	2066925	2067770	667.1158817	641.635987	634.3978541	1035.881711	907.2757327	921.0519999	-0.577516105	2.418126795	2.0443385
B7LEX5	TY-2482_chromosome	+	2067885	2069246	5108.424285	5326.607911	5194.030405	12519.15391	11049.75245	13754.48389	-1.25139194	2.855003526	2.431691
B7LEX2	TY-2482_chromosome	+	2069806	2071092	3565.888529	3025.088106	3169.682989	1681.239859	1388.610297	1890.165201	1.021559203	2.232403908	1.8785777
B7LEX7	TY-2482_chromosome	+	2071153	2072517	1822.583023	1616.037988	1744.339976	807.8474114	608.6546884	925.7040832	1.19394493	6.991775691	6.2382259
C8UAD0	TY-2482_chromosome	+	2072542	2073384	237.9904691	211.6681396	201.8097442	141.4322906	131.05185	113.450277	0.72725526	3.741520427	3.2207932
B7LEX9	TY-2482_chromosome	-	2073445	2074593	80.63990905	96.60835765	81.04944015	175.3772346	110.8805892	131.7230105	-0.796997992	2.857351343	2.4335342
B7LEX8	TY-2482_chromosome	-	2074621	2075265	20.12414833	20.79728298	21.83348538	58.09819346	46.35458705	47.51718799	-1.29895038	5.613414099	4.9501421
B7LEY1	TY-2482_chromosome	+	2075812	2077125	73.51131802	60.08985911	59.87832921	151.7577617	140.1064263	149.9621728	-1.172329512	7.979724901	7.1617387
B7LEY2	TY-2482_chromosome	+	2077161	2078933	285.6976372	263.5927911	289.2501617	764.0040023	507.6000497	836.2309512	-1.292166464	8.557988959	7.7021004
B7LEY0	TY-2482_chromosome	+	2079015	2080460	196.0837176	153.8726009	190.931036	359.3632777	242.7741549	419.080398	-0.831293157	4.21118667	3.6549603
B7LEY4	TY-2482_chromosome	+	2080465	2080884	147.2516836	140.0898618	165.2842418	161.6085169	134.5820621	174.7184866	-0.011266722	0.09623383	0.0707605
B7LEY5	TY-2482_chromosome	+	2080945	2081673	248.1452889	262.8757079	278.0922774	375.2202546	337.6068977	319.9044727	-0.409068661	1.24890516	1.0167066
B7LEY3	TY-2482_chromosome	-	2081723	2082820	456.8383199	501.6031296	460.0801507	525.4638657	509.6266338	482.9776869	-0.138681395	0.207107582	0.1529592
B7LEY7	TY-2482_chromosome	-	2082816	2083208	155.2801495	213.9580515	166.845604	163.4959647	170.2014176	156.6871527	0.035472493	0.246884069	0.1832551
B7LEY8	TY-2482_chromosome	-	2083230	2084144	250.4219074	302.0475257	232.7379626	150.5812662	212.1660657	177.6673948	0.492176458	1.913307572	1.5961872
gcvB	TY-2482_chromosome	+	2084273	2084478	16257.26029	22707.80251	9585.478765	4158.979837	15642.68203	5746.152274	0.754358347	1.236247618	1.0056845
B7N743	TY-2482_chromosome	+	2084439	2084752	314.3827382	466.727256	422.6818653	402.2925611	884.9417409	523.9855276	-0.61276731	1.668973833	1.3836429
B7LEZ0	TY-2482_chromosome	+	2084914	2086116	1370.041955	1281.05575	1416.96782	1151.179563	1136.628848	1203.720425	0.253843536	0.55762871	0.4312921
B7LEY6	TY-2482_chromosome	+	2086119	2086559	566.1609657	553.8136327	526.7236958	485.9249654	496.8915075	486.8205997	0.157743803	0.389506747	0.2952537
B7LEZ2	TY-2482_chromosome	-	2086616	2087419	537.8584942	447.01776	501.1207415	731.5728862	677.9274251	778.6865072	-0.508246731	2.200825725	1.8506843
B7LEZ1	TY-2482_chromosome	-	2087499	2088593	445.5136234	534.5892777	481.2512754	989.5847835	996.4852255	1057.664836	-1.089878513	6.975842814	6.2333707
metV	TY-2482_chromosome	+	2088802	2088878	676.5603807	498.3762611	459.0532716	357.0799832	861.4820235	299.6600178	0.123348036	0.14346363	0.1045664
metV	TY-2482_chromosome	+	2088912	2088988	1327.38835	826.6494874	843.9686115	603.984298	1463.028243	521.9863872	0.26778782	0.332550395	0.2497764
metV	TY-2482_chromosome	+	2089021	2089097	391.3320884	248.4413559	172.0078115	255.3770817	572.9441922	211.4599229	-0.360179522	0.597361712	0.4643554
B7LEZ4	TY-2482_chromosome	-	2089174	2090424	370.1785414	395.7773219	335.7941594	600.5117352	515.9496084	522.4417102	-0.635733031	2.342198437	1.9766572
B7LEZ5	TY-2482_chromosome	+	2090656	2091984	182.6906344	143.255896	163.0417674	169.7211159	167.5132303	118.946966	0.099148872	0.195868172	0.1447275
B7LEZ6	TY-2482_chromosome	-	2092052	2093875	931.834639	820.5562922	980.6443316	1216.864019	1105.63076	1353.504915	-0.364485742	1.415826835	1.1633619
B7LEZ3	TY-2482_chromosome	-	2093878	2097417	1818.61986	1990.056928	1920.61159	2690.506513	2498.922438	3078.238568	-0.525111224	0.894891838	0.7152729
B7LEZ8	TY-2482_chromosome	-	2097413	2100298	1083.489448	1169.214858	1169.983114	2963.053234	2779.226383	3345.343963	-1.398044328	6.407982026	5.6896506
B7LEZ9	TY-2482_chromosome	-	2100477	2103842	1246.717831	1177.496599	1165.871075	1372.305225	1387.770601	1696.773302	-0.272747195	0.880457074	0.7029838
B7LEZ7	TY-2482_chromosome	-	2103858	2104178	59.04791567	61.59907679	58.01820437	65.34710216	51.81325671	52.7955161	0.02440761	0.098388089	0.0723659
B7LF01	TY-2482_chromosome	-	2104166	2104570	47.82198041	51.13196754	46.77535787	37.62688595	55.6118151	48.64214053	0.052358179	0.04584857	0.0316303
A1AF37	TY-2482_chromosome	-	2104570	2105370	41.79465679	39.57319456	48.41631719	32.15837977	29.99176579	34.12031181	0.475799716	1.035984994	0.8327016
Q0TE06	TY-2482_chromosome	+	2105580	2105780	58.16418345	77.68920836	57.17865391	153.412214	194.8607113	155.450843	-1.467079265	9.666775667	8.7571663
B7LF04	TY-2482_chromosome	-	2105779	2106570	1354.394232	1298.434216	1268.857298	2626.575547	2987.708543	3161.224674	-1.131092449	4.264686824	3.7057117
B7LF05	TY-2482_chromosome	-	2106580	2107452	994.6697559	920.3261942	981.7892468	1911.535668	2011.201319	2150.884275	-1.028090371	6.730195672	5.9904511
B7LF06	TY-2482_chromosome	-	2107606	2109849	4019.577524	4111.049609	4128.450708	5053.108708	4039.616075	4748.000008	-0.18973677	0.197630753	0.1460617
B7LF07	TY-2482_chromosome	-	2109865	2110392	2503.75189	2603.67947	2376.678913	1564.260614	1703.670053	1475.011368	0.628018389	1.894084672	1.5789348
B7LF08	TY-2482_chromosome	+	2111077	2111763	233.9030388	267.2718653	256.8526416	137.3932332	135.623677	114.7520286	0.918304908	5.594858511	4.9324621
B7LF09	TY-2482_chromosome	+	2111835	2112545	184.9220084	153.0593337	160.310019	154.0630353	184.8004331	168.4342876	0.017716308	0.031283549	0.0211754
Q1R7H9	TY-2482_chromosome	-	2112623	2112907	584.1607724	563.9863395	512.7644841	174.4001121	493.0142872	135.3465244	1.027019235	3.000804776	2.5610437
B7LF11	TY-2482_chromosome	+	2113012	2114049	1470.934589	1504.378011	1527.80765	2031.601993	2104.893422	2600.553644	-0.540219932	1.61155166	1.3354827
B7LF12	TY-2482_chromosome	-	2114087	2115277	372.4311197	368.442598	361.7358794	326.7305601	342.1268343	424.5246467	0.052034816	0.020240563	0.013528

B7LF13	TY-2482_chromosome	-	2115273	2117429	590.700293	590.4410121	651.8180247	887.8076727	828.9853447	999.607715	-0.529885132	2.370077942	2.0008696
B7LF02	TY-2482_chromosome	+	2118015	2119043	756.0041269	775.3658355	779.7446358	670.9752267	725.3172409	741.9221637	0.126811079	0.243269275	0.1804108
B7LF15	TY-2482_chromosome	-	2119056	2120315	291.6458595	308.4307503	271.8112966	446.8612156	521.4729244	554.9639822	-0.800300353	3.960532044	3.4231928
B7LF16	TY-2482_chromosome	+	2120437	2121369	220.8322469	176.5812828	194.6975518	135.6334113	146.4871181	173.3284822	0.457679371	1.213368344	0.9855473
B7LF17	TY-2482_chromosome	-	2121362	2122051	151.4615194	190.1970159	204.9956991	215.7268002	228.3722836	285.0574724	-0.379360039	1.276647	1.0411189
B7LF18	TY-2482_chromosome	-	2122183	2123598	299.2357546	290.8452584	259.2120186	234.8803074	295.8874871	227.8776181	0.143579642	0.360122096	0.2720193
B7LF19	TY-2482_chromosome	-	2123964	2124722	113.3213618	176.8826308	124.5179272	48.7848005	55.45558045	78.31718667	1.128985118	6.216616599	5.5105473
B7LF20	TY-2482_chromosome	-	2124755	2125588	98.03693818	95.24376096	87.62495688	55.83749544	47.23470285	61.60168776	0.770949306	3.452638899	2.9623796
B7LF21	TY-2482_chromosome	-	2125878	2127056	254.1270037	304.9590115	251.3346348	338.7762065	356.7543957	344.7328227	-0.416221838	1.123375286	0.9091666
B7LF14	TY-2482_chromosome	+	2127311	2128537	336.5385929	324.9393458	332.7408113	463.9308304	570.6570927	549.8426668	-0.63613478	2.932584477	2.4995809
B7LF22	TY-2482_chromosome	+	2129966	2130772	143.4728162	154.3749266	153.8677928	116.2902696	127.6806025	26.30828767	0.595172131	1.664548785	1.3801347
B7LF50	TY-2482_chromosome	-	2145549	2147198	26.77985775	40.78138409	23.36399728	39.9260279	20.85406826	11.27675409	0.045473491	0.426793162	0.3257347
B7LF51	TY-2482_chromosome	-	2147545	2148297	600.5697377	592.2917274	547.8073626	263.5359576	332.2070237	344.4537143	0.917936332	4.771506573	4.1655822
E6BGA4	TY-2482_chromosome	-	2148297	2148485	79.93980321	82.56616834	85.22265147	53.50211813	78.42523376	54.22771168	0.420005084	1.168727741	0.9497834
B7LF45	TY-2482_chromosome	+	2148751	2151006	123.3245436	149.9020456	108.5472167	100.6695147	68.07882432	110.0999933	0.379671102	1.344369856	1.1006652
B7LF53	TY-2482_chromosome	+	2151020	2151895	47.33061499	34.91714293	40.19247836	67.30252786	38.93308053	70.64029273	-0.476148337	1.273693377	1.0387393
B7LF54	TY-2482_chromosome	+	2151895	2152371	26.07041416	26.29287372	30.53365022	48.86913412	30.78310401	49.71828859	-0.618957286	1.645142196	1.3638309
B7LF52	TY-2482_chromosome	-	2152417	2154192	511.4318262	573.4083903	502.2681476	1255.470129	785.2599678	704.4758345	-0.926019557	3.283253171	2.8102988
B7LF57	TY-2482_chromosome	+	2155916	2157109	64.50229978	61.32724148	47.78587302	58.31004186	71.99801119	52.92779784	-0.122862277	0.137826409	0.1012127
B7LF58	TY-2482_chromosome	+	2157170	2158378	40.14424019	63.58698404	39.2500362	65.27387285	49.04173287	60.46759416	-0.444952513	0.621710438	0.4852001
B7LF59	TY-2482_chromosome	+	2158434	2159816	32.03176026	37.9513933	34.29344764	44.04296558	38.15657673	45.92627408	-0.32619595	0.603287648	0.4695051
B7LF60	TY-2482_chromosome	+	2159867	2160796	63.51532254	66.77778416	63.99144897	75.63874134	70.05381682	68.52828551	-0.168390534	0.298395216	0.2232677
B7LF61	TY-2482_chromosome	-	2160843	2162465	82.8649354	92.43343679	91.828448	214.478371	111.7389844	141.0305092	-0.894182479	3.231257243	2.7650362
B7LF56	TY-2482_chromosome	-	2162516	2163283	48.73170819	35.41466064	48.34383782	203.7401977	137.3223332	129.3777315	-1.822320867	1.37873071	1.2775688
B7LF63	TY-2482_chromosome	+	2163386	2163961	223.4031987	271.7812481	241.5781873	180.3431262	168.4076496	118.99111	0.55143173	2.600923414	2.2068674
B7LF64	TY-2482_chromosome	+	2164286	2167381	73.23457094	77.06841724	73.89548596	177.7485685	125.4585494	153.9302809	-1.066794464	6.0114373	5.3182334
B7LF62	TY-2482_chromosome	+	2167387	2168712	15.49367493	20.22939527	20.61249135	85.97568491	71.77605331	103.5148573	-2.201718361	15.32355459	14.170714
B7LF66	TY-2482_chromosome	+	2168766	2169542	24.31277909	35.43722002	37.95895458	116.3067784	97.27918346	123.4558546	-1.797666932	12.95641606	11.883658
B7LF67	TY-2482_chromosome	+	2169542	2172409	153.966641	195.6536353	131.5633864	390.8995732	295.6162024	419.3379377	-1.296927652	7.079346893	6.3209143
B7LF65	TY-2482_chromosome	+	2172577	2173974	47.0532004	44.61045235	52.32208788	50.07765845	37.19819809	51.11952334	0.089059532	0.080177842	0.0582929
B7LF69	TY-2482_chromosome	+	2173992	2175308	118.2015992	113.5595354	111.4850801	135.9037019	109.9783842	163.9740602	-0.226233635	0.642313055	0.5020075
B7LF70	TY-2482_chromosome	+	2175347	2176711	104.0446582	100.3399153	90.22275569	95.89281385	82.72651231	105.0145264	0.052547579	0.097218947	0.1714428
B7LF68	TY-2482_chromosome	-	2176753	2177238	42.21029487	23.16426646	35.00349658	27.41606975	18.13216551	17.38336443	0.72067547	1.544038512	1.2735043
B7LF72	TY-2482_chromosome	-	2177241	2179157	65.10397628	62.08322331	61.31632361	72.61788157	32.56238158	44.96861289	0.250002315	0.657256469	0.5140494
B7LF71	TY-2482_chromosome	+	2181291	2181836	254.2156195	257.719732	261.4647199	187.6444216	202.9501738	205.177651	0.391737037	1.247645065	1.0158013
B7LF75	TY-2482_chromosome	-	2181885	2183399	5137.072868	4475.071871	4597.100132	8955.022836	8098.453473	10375.90154	-0.904708002	1.854449731	1.5457397
B7LF76	TY-2482_chromosome	-	2183412	2184507	2541.940596	2465.254998	2425.612756	5287.342199	4372.67348	5833.099356	-1.044723172	2.383273412	2.0124006
B7LF77	TY-2482_chromosome	-	2184601	2186331	1799.986621	1816.215078	1886.346621	2970.455201	2369.636463	3247.902704	-0.623203006	1.179016995	0.9577388
B7LF74	TY-2482_chromosome	-	2186340	2187047	984.8262673	986.9919303	1061.776294	1300.923955	1149.294368	1481.047035	-0.339931491	1.148938269	0.9317587
B7LF79	TY-2482_chromosome	-	2187075	2187968	800.1398342	776.0131197	853.8134012	910.2364474	847.2079723	934.0012049	-0.122563646	0.355316479	0.2684373
B7LF80	TY-2482_chromosome	+	2188080	2188598	1396.234318	1388.326154	1328.93463	946.2378821	1009.270191	957.8310072	0.492591726	1.864395919	1.5541335
B7LF81	TY-2482_chromosome	-	2188644	2189048	1118.90545	1015.360395	994.8111483	711.733017	848.2697238	673.8727813	0.487943095	1.892245265	1.5780185
B7LF82	TY-2482_chromosome	-	2189032	2189285	917.615103	871.2119574	916.4246595	578.2781046	736.3453059	598.7933469	0.522871653	1.967244292	1.6426392
B7LF83	TY-2482_chromosome	+	2189538	2190515	1353.036633	1139.641476	1202.188654	1608.866912	1646.271601	1710.234358	-0.387347255	1.427824489	1.1736544
D8A3I5	TY-2482_chromosome	-	2190599	2191285	956.6267112	792.3595428	921.7613692	312.996976	387.7790743	322.4932944	1.438675271	10.40164857	9.4541102
B7LF85	TY-2482_chromosome	+	2191422	2191730	397.041994	402.0431672	414.6705134	228.1502323	337.8421124	221.4408975	0.629630073	2.392973243	2.0214293
B7LF86	TY-2482_chromosome	+	2191769	2193205	1539.719775	1571.479258	1638.116953	2757.076403	2409.750025	2661.46052	-0.72245186	2.050344656	1.7152815
B7LF88	TY-2482_chromosome	-	2193268	2194008	101.5580228	129.3237519	98.09516089	292.6193264	293.876214	378.4484268	-1.591020469	11.72865176	10.714728
B7LF89	TY-2482_chromosome	-	2194272	2197142	7878.307253	8664.878831	8908.670211	31062.55822	23841.36938	34902.81886	-1.806833605	4.720787374	4.1191078
B7LF90	TY-2482_chromosome	-	2197264	2197650	2965.795522	3173.337535	3245.137227	7193.823742	6229.209622	7611.935093	-1.15991913	2.685325103	2.28861
B7LF91	TY-2482_chromosome	-	2197677	2198768	5569.855124	5553.804197	5804.181385	15259.90121	12096.289	14949.19072	-1.318709233	3.042703038	2.598466
B7LF87	TY-2482_chromosome	-	2199219	2200418	1198.063059	1217.975432	1104.37433	2266.69895	1821.839842	1977.455697	-0.830375613	3.928881509	3.394366
B7LF93	TY-2482_chromosome	-	2200444	2201619	2499.350614	2298.317408	2393.31817	3628.835647	2481.542226	3366.502778	-0.398351327	0.574876433	0.4456024
B7LF92	TY-2482_chromosome	-	2201619	2202941	4309.043685	4160.442875	4359.560014	6227.965985	4681.159176	6279.188165	-0.410965877	0.583754678	0.4530687
D3GTS3	TY-2482_chromosome	-	2202970	2203551	1953.351178	1842.506648	2018.432049	2480.67914	2002.920958	2379.862935	-0.224878839	0.404036515	0.3063884
D6JEQ2	TY-2482_chromosome	+	2203576	2203761	631.9792087	620.680745	578.8494654	252.983486	389.7036979	277.8623126	0.998976856	5.403215283	4.7511906
B7LFG9	TY-2482_chromosome	+	2203713	2204039	3374.421258	3024.490976	2915.390346	1377.318788	2229.001947	1316.160846	0.926550001	1.954630753	1.6317449

ssrS	TY-2482_chromosome	+	2204084	2204266	331018.2154	120170.9084	62850.77875	80644.29982	562786.3451	28696.57225	-0.322851296	0.233143791	0.173026
A8A452	TY-2482_chromosome	+	2204144	2204887	330576.9944	119866.9657	62506.7943	80683.70368	562622.5352	28801.82153	-0.325812451	0.235413518	0.1746395
rygC	TY-2482_chromosome	+	2204916	2205066	100.9626458	121.2839083	79.35978713	36.0283072	77.62257724	48.89555486	0.833006714	3.139983411	2.6820349
E11F6	TY-2482_chromosome	-	2205066	2205275	38.98126155	38.31267333	32.09147172	9.014231856	35.84607688	16.08748452	0.872775725	1.833052604	1.5264682
rygC	TY-2482_chromosome	+	2205308	2205455	57.80741428	60.13030084	35.65989972	20.14623642	70.56202686	17.93143039	0.415629414	0.75516041	0.5979687
B7LFG7	TY-2482_chromosome	-	2205674	2206903	1195.605489	1362.055903	1334.39102	1342.21579	1469.770229	1360.431433	-0.116020074	0.205665667	0.1520119
A1AFA2	TY-2482_chromosome	-	2207162	2207854	2696.320271	1998.156225	2216.928922	2787.634871	2921.257412	3061.331798	-0.276440626	0.480633907	0.3677537
B7LFH3	TY-2482_chromosome	+	2208201	2209091	774.3356743	619.3186491	615.0765304	466.6074914	562.4664555	532.7875626	0.409650372	1.090660731	0.8814102
B5YQB0	TY-2482_chromosome	+	2209298	2211439	92.70305042	92.89360372	93.74264227	81.25049683	73.76402024	46.69677377	0.398885808	1.378579211	1.130348
B7LFH1	TY-2482_chromosome	+	2211435	2212427	27.97032145	23.13712796	16.71568747	33.59651166	32.77450651	27.85122222	-0.521755404	0.969444155	0.7766696
B7LFH7	TY-2482_chromosome	+	2212441	2213223	30.31156266	19.25809311	18.80476213	44.36127006	38.22381205	29.35370903	-0.721947964	1.82277177	1.5170349
B7LFH6	TY-2482_chromosome	+	2213250	2214725	46.93703976	47.31574241	60.43758967	103.6052884	80.03108133	74.01108501	-0.744807492	2.782434744	2.3673662
E9WIW1	TY-2482_chromosome	-	2214673	2215621	72.58906099	67.46354861	69.27587142	126.2677673	118.3052391	106.7999603	-0.759392442	3.672966156	3.1588469
B7LFI0	TY-2482_chromosome	-	2215791	2216528	971.3719034	953.728882	1057.194343	1203.034323	1208.529041	1270.813784	-0.273714376	0.862305387	0.6872596
B7LFH8	TY-2482_chromosome	-	2216624	2217256	104.5554288	99.24965847	129.80973219	89.54368716	115.6291313	114.3071667	0.153181674	0.126203164	0.0927098
B7LFI2	TY-2482_chromosome	-	2217398	2218255	2015.996547	2209.950201	2293.792614	3258.55449	3447.288039	3375.881618	-0.625440163	1.125112475	0.910592
B7LFI1	TY-2482_chromosome	-	2218616	2219692	19885.81931	18412.75322	19916.69497	44200.27695	39254.0775	47714.49007	-1.137203989	2.267500196	1.90875
B7LFI4	TY-2482_chromosome	-	2219910	2221070	15537.13643	14409.912	15524.14598	26566.5838	21874.78445	29097.12622	-0.734212425	1.199855158	0.9739593
B7LFI3	TY-2482_chromosome	-	2221123	2222139	8461.86738	7854.252472	8070.000847	2716.882791	2545.366761	2789.021754	1.615786529	4.516006186	3.933301
B7LFI6	TY-2482_chromosome	+	2222511	2222939	301.9618002	366.7736191	306.8279963	3.381864134	3.675746529	6.834775409	6.834775409	90.19218921	87.435934
B7LFI5	TY-2482_chromosome	+	2222866	2223540	436.6656008	468.3201872	438.3088743	11.95808837	9.988031647	9.34445228	5.363644522	82.13135318	79.551189
B7LFI8	TY-2482_chromosome	+	2223544	2224248	248.3661017	212.5880358	247.0246883	15.83461826	11.75132828	16.95208141	4.033014632	55.03731662	53.068167
B7LFI9	TY-2482_chromosome	+	2224233	2224913	138.2950851	148.8512048	135.888916	4.778837626	10.03801169	12.77676217	4.002449262	43.71434248	41.93581
B7LFI7	TY-2482_chromosome	+	2224877	2225584	135.3607058	136.4269412	129.9623149	55.19441862	46.32398247	60.29678193	1.312203172	9.749144868	8.8340922
B7LFI1	TY-2482_chromosome	-	2225562	2226272	364.1209468	415.9404199	343.7267737	249.6464942	238.4225292	230.3566084	0.579671514	2.78032142	2.3655003
B7LFI2	TY-2482_chromosome	-	2226272	2226778	389.7302161	390.8395979	323.814242	261.7837628	331.3773422	259.4248542	0.339624416	1.125198115	0.910592
B7LFI0	TY-2482_chromosome	-	2226803	2227765	25.53597333	21.3056723	22.35532414	42.83773178	32.66194963	43.2656202	-0.754551316	2.220414282	1.8687786
B7LFI7	TY-2482_chromosome	-	2231230	2232318	9490.242492	8757.897707	8016.957348	24754.67814	21139.48636	26337.0573	-1.457777955	3.349186896	2.8685305
D3GTU8	TY-2482_chromosome	+	2233370	2234251	669.0295768	866.3823988	762.5323888	1140.961602	1009.209362	1001.335443	-0.533834968	1.696469558	1.4085612
Q47649	TY-2482_chromosome	+	2234307	2235320	1591.317338	1717.543434	1608.249119	2100.812487	1983.855907	2270.578874	-0.380012099	0.833206877	0.662734
B7LFI0	TY-2482_chromosome	-	2236396	2238369	3179.249429	2659.524085	2885.174336	6953.582727	5705.009397	6916.047148	-1.134170659	2.711856043	2.3075416
B7LFI3	TY-2482_chromosome	+	2238645	2238857	408.4065116	381.5940181	376.2137429	592.2348826	668.0385441	581.6679315	-0.65537709	2.964983387	2.5283542
B7LFI1	TY-2482_chromosome	-	2238860	2239108	89.44350799	63.11535999	60.35114448	130.2717852	150.1391539	178.5244575	-1.026782593	6.183911605	5.4797725
B7LFI4	TY-2482_chromosome	+	2239164	2240315	2255.918747	1673.271007	1694.515771	4481.177575	4526.519708	5911.865492	-1.324642401	3.799717448	3.2739107
B7LFI6	TY-2482_chromosome	+	2240754	2242145	558.8431511	447.2335467	509.0322471	968.6331779	878.1192545	1068.032528	-0.881635004	5.862444385	4.7118881
B5YQE2	TY-2482_chromosome	+	2242174	2242719	60.75501433	56.45005905	46.52545122	49.59230017	46.45644371	30.78419845	0.285051928	0.802594567	0.63796
B7LFI5	TY-2482_chromosome	+	2242817	2243521	213.0137549	231.5355275	227.8006032	164.9844486	137.3308365	163.0363034	0.514444215	2.034424316	1.7012096
B7LFI9	TY-2482_chromosome	+	2243604	2244332	640.1953044	633.5186334	590.078142	934.6310956	821.7084405	922.1832414	-0.539001671	2.110916493	1.7694253
B7LFI0	TY-2482_chromosome	+	2244348	2245295	1234.656728	1269.652426	1207.471233	2006.219133	1815.461147	2299.366986	-0.713126765	3.331868087	2.8532217
B7LFI1	TY-2482_chromosome	+	2245407	2245967	490.5943124	506.9184449	452.7138375	919.5401582	762.5191872	941.7965857	-0.878851816	4.624156236	4.0333675
B7LFI2	TY-2482_chromosome	+	2245970	2246383	277.4036052	307.9762575	257.8996253	483.6242189	376.6498659	455.1283826	-0.70038556	2.667319667	2.2663718
B7LFI8	TY-2482_chromosome	-	2246565	2247542	36.39437208	52.20194146	41.50627243	49.64235745	38.16673149	37.07491804	-0.062793472	0.049633519	0.0347265
B7LFI4	TY-2482_chromosome	+	2247560	2248261	493.0134305	403.2800506	450.9206769	597.6049608	519.5373153	668.0239384	-0.347235095	1.310691411	1.0708058
B7LFI5	TY-2482_chromosome	+	2248282	2248845	572.030613	567.199151	613.4748914	880.4039119	948.2580387	1047.002068	-0.67019351	3.626265432	3.1176762
B7LFI6	TY-2482_chromosome	+	2248845	2249132	262.54257	257.5290531	241.4838393	430.1990467	379.4122635	449.7757404	-0.729482531	3.436850646	2.9489389
B7LFI7	TY-2482_chromosome	+	2249143	2249733	583.4237838	465.7453349	599.0645305	921.3016981	823.4961728	1073.173624	-0.680881247	3.68512152	3.169727
B7LFI8	TY-2482_chromosome	+	2249729	2250862	637.2935127	564.8916429	580.9120395	895.0419283	796.1936532	1037.657212	-0.571895536	2.631668898	2.3228716
B7LFI3	TY-2482_chromosome	-	2251023	2252027	52.00330931	77.81950114	65.37326079	42.60923922	33.67407927	21.63515619	0.833830166	3.632173034	3.1226621
B7LFI0	TY-2482_chromosome	-	2252147	2253190	4896.832173	4678.395993	5089.184301	200.1674595	185.5659323	239.0831721	4.600929041	28.0036248	26.553794
B7LFI9	TY-2482_chromosome	-	2253369	2254085	410.2382391	546.9389694	487.2637695	1396.543226	1583.500588	1661.444001	-1.71211269	14.32465346	13.208133
B7LFI2	TY-2482_chromosome	-	2254272	2254595	1022.865809	1186.557915	1102.561087	1216.194125	1271.360668	1202.55894	-0.188948355	0.354381581	0.2676752
B7LFI3	TY-2482_chromosome	-	2254598	2255314	683.4482273	761.4240172	661.3620728	860.291067	892.784807	819.7728701	-0.335896193	0.878000924	0.700814
B7LFI4	TY-2482_chromosome	+	2255475	2256524	537.7543986	465.1114045	551.4519159	857.4753966	959.2254781	924.8709192	-0.75903804	4.278103357	3.718093
E7HG43	TY-2482_chromosome	+	2256555	2256864	574.3124097	559.465854	594.2743407	720.7296801	997.5900355	719.9693396	-0.478364807	1.752371742	1.4581395
B7LFI1	TY-2482_chromosome	+	2256895	2257971	353.0502582	320.2202616	341.3373449	452.4173733	431.3125287	491.8710626	-0.403865986	1.498590933	1.2346413
B7LFI7	TY-2482_chromosome	+	2258176	2259429	479.3885338	466.4424077	462.7549149	2330.994865	1962.006823	2061.667714	-2.193535025	23.49732054	22.119008
B7LFI6	TY-2482_chromosome	-	2259485	2261617	311.8143914	294.5532248	334.2361495	359.7239956	349.3973625	423.3280296	-0.212354712	0.721242429	0.5679958

B7LFM9	TY-2482_chromosome	+	2262015	2262719	867.3938092	904.1839915	929.0160573	89.34568608	99.28005822	72.75112481	3.342559151	48.57165921	46.697643
B7LBZ3	TY-2482_chromosome	+	2262789	2263034	107.850727	100.3793093	87.50489281	21.30988218	20.06608	11.01284876	2.40649159	20.30412055	19.010263
B7LFN0	TY-2482_chromosome	+	2263101	2264360	154.9939881	134.5454338	130.5174186	91.87877923	89.14935643	98.56316178	0.607347321	2.553649854	2.1638172
E1U309	TY-2482_chromosome	+	2264776	2265470	306.5716522	321.6182893	301.6255144	107.413993	137.5170176	113.2900951	1.367895422	10.48708371	9.5336018
B7LFN2	TY-2482_chromosome	-	2266346	2266936	101.2273956	96.88555991	66.74098443	22.93586234	56.75817174	26.75723382	1.280529279	5.193661739	4.5555054
B7LFN4	TY-2482_chromosome	+	2267329	2270193	2131.354405	2086.61838	2077.040574	2273.645538	2043.000819	2306.176229	-0.070645845	0.092607102	0.0678395
B7LFN3	TY-2482_chromosome	+	2270198	2271199	2725.851185	2735.603097	2718.810167	2590.325537	2174.941297	2460.167306	0.166984035	0.215006802	0.1588853
B7LFN6	TY-2482_chromosome	+	2271212	2273596	4947.666885	5020.28593	4974.177165	4846.188837	3961.356189	4671.66486	0.136761286	0.162233173	0.1190479
B7LFN7	TY-2482_chromosome	+	2273609	2275234	2726.454212	3123.646623	2919.526786	5701.827006	4389.149827	3444.926288	-0.734943226	1.032539347	0.8300151
B7LFN5	TY-2482_chromosome	+	2275240	2278107	3385.322842	3832.006112	3549.361981	9197.423544	7152.04466	6362.766044	-1.167153959	2.285816895	1.9264142
B7LFN8	TY-2482_chromosome	+	2278199	2278489	147.4772098	134.2030394	125.2152454	141.7116414	120.1311725	91.31864829	0.139276077	0.458183764	0.3497999
B7LFN9	TY-2482_chromosome	+	2278526	2278909	124.0078948	145.6954868	126.6370073	75.112519	73.76464281	53.09355697	0.881454235	5.526891183	4.8675455
B7LEP8	TY-2482_chromosome	-	2278835	2279983	289.285852	341.1763964	286.3428781	194.7613737	184.7936935	130.8234051	0.735317968	0.4089010903	3.5415995
Q6Q6S9	TY-2482_chromosome	+	2280048	2280536	96.57874999	83.39529259	90.42439089	104.6267097	88.21454488	94.77902645	-0.076602081	0.158856852	0.1161967
P71290	TY-2482_chromosome	-	2280755	2281060	331.1678281	342.923257	371.2105319	524.2743321	399.3750381	532.5881838	-0.467147624	1.634382756	1.3545239
B7LBU5	TY-2482_chromosome	+	2281131	2282651	1407.433917	1357.929226	1414.238842	2278.214632	2070.303893	2348.255549	-0.664525891	2.582096017	2.1903914
Q327G0	TY-2482_chromosome	+	2282729	2283226	186.9969686	153.914098	202.3172592	234.4808642	232.0631032	222.4456859	-0.282913787	1.011490592	0.8125917
B7LBW0	TY-2482_chromosome	+	2283382	2287497	6322.907272	6444.875177	6643.994712	7170.76068	5551.137579	8787.691302	-0.111342112	0.153664639	0.1124438
B3IA48	TY-2482_chromosome	-	2287597	2287905	240.1401852	229.3410735	216.382205	196.1235799	201.9891233	239.1410084	0.131770542	0.216594236	0.1598511
Q5K5W0	TY-2482_chromosome	-	2287935	2288601	211.1481065	166.2582619	179.4590552	117.7246678	86.30938358	124.676823	0.805279202	3.579016392	3.0768252
D3GV17	TY-2482_chromosome	+	2288791	2289051	98.04025292	76.71448583	103.2404767	41.49817773	63.81070083	56.49352254	0.896932098	3.263164303	2.792466
B7LFP0	TY-2482_chromosome	+	2289085	2290695	239.4564656	224.0833688	201.0930913	170.2337603	143.7084468	167.0061719	0.449809367	1.638432793	1.3580299
B3I233	TY-2482_chromosome	-	2290887	2291489	144.1452422	193.1042803	138.2997458	119.6138594	99.23569026	57.39656012	0.58585447	2.866481928	2.4412135
B7LX19	TY-2482_chromosome	-	2291436	2292566	320.6979698	340.0463063	351.9991729	236.8890157	197.4581888	170.1248102	0.693393701	3.520764565	3.0242819
B7LBX6	TY-2482_chromosome	+	2292615	2292812	61.12591275	67.22748461	75.50849192	39.25437975	40.01364288	45.87614345	0.736136145	2.670970865	2.2695437
D3GV13	TY-2482_chromosome	-	2293092	2293496	297.685864	298.4856819	269.8281041	338.266126	272.102617	199.3262968	-0.000982082	0.173464465	0.1280663
D3GV12	TY-2482_chromosome	-	2293884	2295035	555.3863027	668.923299	654.3972711	1045.1518	768.964248	558.5929902	-0.4580769	0.852484122	0.678718
B7LWV5	TY-2482_chromosome	-	2295145	2295497	770.1166375	847.1751904	851.1157439	908.01091	821.7990568	642.5345546	-0.004823893	0.10667913	0.0788787
D3GV09	TY-2482_chromosome	-	2295517	2296080	664.5418821	777.7250093	839.4371773	1124.939716	931.89008	720.2430203	-0.353432682	0.76108783	0.6027124
D3GV08	TY-2482_chromosome	-	2296670	2296922	165.8747232	180.2175206	184.9620789	222.5271094	173.7701398	156.9501945	-0.118209967	0.111949228	0.0820132
Q327G0	TY-2482_chromosome	-	2297829	2298326	284.8185215	288.9806246	317.7403889	413.4194877	339.3853059	348.7957564	-0.317631081	0.866806702	0.6906203
B7LBU5	TY-2482_chromosome	-	2298404	2299924	1249.672187	1190.476946	1217.4402	2085.12754	1850.963112	2212.670222	-0.73127735	3.597849406	3.0923186
P71290	TY-2482_chromosome	+	2299995	2300300	353.6806946	363.1431062	357.8165262	490.0160502	393.0148476	525.9479601	-0.387163789	1.214147578	0.9860048
Q9S110	TY-2482_chromosome	+	2300218	2300586	744.8852266	688.5432722	741.4807575	958.9706936	774.3383393	979.9307267	-0.295302963	0.976808578	0.7829945
B7LFP9	TY-2482_chromosome	-	2300519	2301089	3185.752269	3148.065453	3313.780658	3650.850425	3073.790469	3725.658693	-0.104580108	0.128690856	0.0938336
B7LFP0	TY-2482_chromosome	-	2301520	2304066	3763.631283	4280.851253	4537.351067	6855.790704	4566.525377	4478.793433	-0.413501296	0.427434869	0.3261975
B7LFP6	TY-2482_chromosome	-	2304073	2307483	2383.16779	2604.216137	2788.369869	4052.231123	3440.066174	1894.187132	-0.373721207	0.327592007	0.246427
B7LFP2	TY-2482_chromosome	-	2307483	2308082	418.5055544	496.7786818	522.481547	637.5214947	508.7936131	230.1125432	-0.078825973	0.087164705	0.0636258
B7LFP1	TY-2482_chromosome	-	2308070	2308381	275.6787402	336.6559386	332.2304399	493.9553492	337.6263532	172.1841642	-0.256982611	0.125979761	0.0926664
B7LFP4	TY-2482_chromosome	-	2308412	2309839	947.2319393	1104.831157	1184.72474	1888.901595	1329.607822	619.598209	-0.399564773	0.428373447	0.3268958
B7LFP5	TY-2482_chromosome	-	2309843	2310394	470.6983723	665.5612383	637.9925005	1178.182658	837.2553385	444.4973727	-0.655127363	1.1140658	0.901071
B7LFP6	TY-2482_chromosome	-	2310402	2311475	1043.604716	1295.350582	1431.778064	2483.331329	1591.643735	882.6260539	-0.54609026	0.83939827	0.6674738
B7LFP7	TY-2482_chromosome	-	2311482	2311784	390.6089768	525.3168004	627.1877491	921.3553424	659.7943816	358.9493752	-0.455032387	0.650891074	0.5087413
B7LFP3	TY-2482_chromosome	-	2311791	2312255	490.1314123	663.7298488	704.8512203	1324.785838	926.4528045	428.8345453	-0.699584733	1.224225283	0.9947933
B7LFP9	TY-2482_chromosome	-	2312269	2314248	1822.878651	2309.68417	2348.688025	3153.244634	2276.106493	803.9655231	-0.137030197	0.057061718	0.0402795
B7LFR0	TY-2482_chromosome	-	2314264	2315220	775.3150517	880.4752001	876.2160342	967.092455	811.8626815	368.2433794	0.09624253	0.454904299	0.3473745
B7LFR1	TY-2482_chromosome	-	2315187	2316986	1735.570724	1875.200294	1963.678903	2292.157286	1908.422808	1166.54295	-0.042007511	0.076858881	0.0557756
B7LFR2	TY-2482_chromosome	-	2316982	2317401	806.0946715	778.8019976	895.4941697	949.0864294	751.6953388	551.9459081	0.08671064	0.287430573	0.2148972
B7LFR3	TY-2482_chromosome	-	2317414	2317917	3165.976095	4074.055977	4148.506103	3427.022508	2664.627819	1855.814637	0.402270808	0.782562091	0.6208371
B7LFP8	TY-2482_chromosome	-	2317930	2319405	3694.132309	4038.914648	4300.296996	4246.704883	3149.66478	2250.501601	0.223960653	0.401531226	0.3048353
B7LFR5	TY-2482_chromosome	-	2319411	2319884	922.0091657	935.3081199	981.189176	798.5749218	578.8148577	291.9095393	0.635196115	2.518001407	2.1318886
P16943	TY-2482_chromosome	+	2320280	2321307	69.45130462	83.54176138	66.45356193	37.98207626	49.27612861	30.68178615	0.810280879	3.60023439	3.0940937
B7LFS0	TY-2482_chromosome	+	2321422	2321904	58.23845301	77.20720728	49.73702647	17.2478486	34.804003	18.74597782	1.286571885	5.693123524	5.0205496
D8EKF9	TY-2482_chromosome	+	2321982	2322591	110.5934627	132.2738319	102.7046577	112.6521992	124.8562081	56.17860314	0.086181443	0.437985068	0.3342233
B7LFS4	TY-2482_chromosome	-	2322628	2322948	78.92400808	109.3542969	101.7986825	59.38148897	61.06419418	36.13889916	0.780495879	3.641712581	3.1315861
B7LFS2	TY-2482_chromosome	-	2323017	2323658	100.8508399	122.0030958	96.13707512	92.91146308	77.31028758	75.1990634	0.278776979	1.081737586	0.8735641
B7LFS6	TY-2482_chromosome	-	2323682	2323987	102.500704	105.0601735	90.20122102	103.012491	65.3781271	82.93710001	0.175907523	0.54730192	0.4223632

D3GUYO	TY-2482_chromosome	-	2324312	2324614	178.532948	200.7597567	209.454568	301.87619	341.3031815	327.5819429	-0.711873044	3.448760163	2.9590739
B7LFT1	TY-2482_chromosome	-	2324682	2326466	1206.149944	1287.747611	1288.154224	1691.072858	1534.275932	1793.011037	-0.40695469	1.344142619	1.1006047
B7LFT2	TY-2482_chromosome	-	2326663	2327826	717.0889735	757.1204629	747.3849417	922.0300645	772.5080895	1057.357651	-0.296379647	0.919477438	0.7347851
B7LG71	TY-2482_chromosome	-	2328009	2329367	1553.157164	1538.53251	1753.149731	1840.251068	1484.16758	1959.97929	-0.09073906	0.260005004	0.1935021
B7LG72	TY-2482_chromosome	-	2329392	2329910	648.9332228	698.3121785	768.7495788	594.5454285	468.558845	587.9221478	0.364468591	1.078753097	0.8708869
E3PN47	TY-2482_chromosome	-	2330414	2330686	129.3307846	150.3489245	115.2014389	48.93133596	76.66720415	42.60073126	1.152115832	6.982738009	6.2297274
B7LG74	TY-2482_chromosome	-	2330640	2330945	219.6231924	264.5141456	256.2545127	109.2694976	156.6836838	117.309532	0.936391112	5.151145258	4.517515
B7LG70	TY-2482_chromosome	-	2330969	2331625	408.2466726	427.4441658	420.554452	261.195337	328.6656464	238.4965517	0.582747616	2.429045363	2.053679
B7LG78	TY-2482_chromosome	-	2332861	2333427	61.72084344	38.21561602	46.72035312	14.64517979	27.45577238	18.55536175	1.375959372	4.934255504	4.3169371
B7LG80	TY-2482_chromosome	-	2333677	2333877	98.72452424	104.8603812	88.89038043	27.92838924	42.00859227	27.90082999	1.544947405	10.16163453	9.2273834
Q0TDJ8	TY-2482_chromosome	-	2334047	2334337	198.5930593	300.4662667	210.2983961	78.53947014	106.6225664	75.31087056	1.318678204	9.386354525	8.491185
B7LG83	TY-2482_chromosome	+	2335220	2335816	44.93622919	39.43146691	42.90121622	30.76033956	33.69132832	31.6232248	0.435227642	0.920483667	0.7355
B7LG85	TY-2482_chromosome	+	2337314	2338330	167.2517349	105.5361617	126.5915036	113.2716048	82.01368914	9.19762906	0.835551732	1.763921599	1.4669198
B7LG82	TY-2482_chromosome	+	2339643	2342765	362.6728238	383.2445809	347.1239904	247.5017966	239.2980105	270.8541359	0.516984256	2.045777355	1.7117421
B7LG88	TY-2482_chromosome	+	2342883	2345402	237.7488523	232.4867161	257.6349389	189.3912394	233.0109916	236.6365615	0.200062114	0.320591789	0.244729
B7LG89	TY-2482_chromosome	+	2345481	2345933	94.85580436	112.120515	94.91355714	39.33829248	48.34275975	31.96344351	1.261329706	8.033297426	7.2113085
Q5K5L6	TY-2482_chromosome	-	2347465	2348421	94.50795926	61.80493408	85.25926404	65.07906072	68.30231249	54.24487848	0.432025047	0.995408676	0.7986108
B7LG96	TY-2482_chromosome	+	2349140	2349619	28.38081715	32.59391902	26.21868369	29.93221721	28.11420306	45.46116766	-0.237252081	0.386581319	0.2933195
B7LG97	TY-2482_chromosome	+	2349619	2350038	203.4666487	195.9172522	189.3637588	112.3961326	170.3195697	142.1019781	0.50482131	1.638767153	1.3581827
B7LG90	TY-2482_chromosome	+	2350126	2350965	116.593611	105.5361617	106.6521824	35.12646575	58.48226803	29.47431901	1.469915512	9.4811391	8.5822159
B7LG99	TY-2482_chromosome	-	2351252	2351785	81.28367831	117.9558731	79.53043533	16.51546493	19.93738785	37.27130983	1.905173103	10.49551297	9.5411753
B7LGA0	TY-2482_chromosome	-	2351790	2352965	116.7943664	84.88177592	120.4300043	32.55747608	13.43101154	35.03838583	2.08221806	12.71242313	11.656222
B7LGA1	TY-2482_chromosome	-	2352965	2353939	108.3683515	101.5517302	122.3822897	8.961818323	9.978824233	14.17975997	3.410031506	32.0603312	30.525581
B7LGA8	TY-2482_chromosome	-	2353945	2354541	133.8308191	131.7510008	138.0284868	11.14300761	7.172616145	15.39826925	3.621225482	39.46625219	37.751389
B7LGA2	TY-2482_chromosome	-	2354541	2354909	105.4089301	103.4655471	109.6533948	9.39932411	5.386922174	7.893235033	3.786989477	38.1176863	36.422128
B7LGA4	TY-2482_chromosome	-	2354909	2355469	193.6457522	191.0492398	202.7602167	21.37337835	17.28478552	12.22354747	3.471182284	46.59189116	44.783804
B7LGA5	TY-2482_chromosome	-	2355476	2355955	158.3793719	170.1667007	183.0583343	7.558262184	10.93169977	12.92616504	4.080442654	50.97891722	49.059934
B7LGA3	TY-2482_chromosome	-	2355948	2357168	229.4173885	267.0122751	246.8940224	20.09296365	19.54157711	19.54157711	3.89067639	53.42269482	51.479353
B7LGA7	TY-2482_chromosome	-	2357171	2358661	310.3167105	326.6842074	301.6000577	25.37332599	17.22323048	17.32498706	3.891878172	57.17770946	55.120424
B7LGA8	TY-2482_chromosome	-	2358664	2360721	384.418177	383.6509563	359.0149651	30.9453457	24.48456747	32.72108567	3.666149598	52.36076109	50.425691
B7LGA9	TY-2482_chromosome	-	2360754	2361710	86.17234517	72.94453066	74.46564827	19.20975348	12.63612796	19.57056546	2.198779682	15.69966143	14.533076
B7LGB1	TY-2482_chromosome	-	2362207	2363013	274.4777009	263.1451802	269.3503994	23.45855634	31.96395989	21.33472342	3.391383961	46.79752369	44.977027
B7LGB2	TY-2482_chromosome	-	2363156	2367784	2741.079264	2316.497967	2275.599621	300.4465926	235.6089422	267.1031893	3.18520899	43.21780135	41.45055
B7LGB4	TY-2482_chromosome	-	2368255	2369934	43.98333235	63.78903263	37.83245409	35.02605448	19.8434488	39.04752094	0.506307923	1.452283007	1.1934754
B7LGB5	TY-2482_chromosome	-	2370293	2372461	2877.508579	3144.998034	3274.245026	1341.206902	1046.426047	1382.461182	1.302545851	4.144584997	3.5921099
B7LGB3	TY-2482_chromosome	-	2372486	2372887	612.1778604	703.393599	804.5482597	224.0100666	162.719142	263.8938805	1.741183782	13.38336478	12.29805
B7LGB7	TY-2482_chromosome	-	2372895	2374115	413.3741834	463.3147795	466.2185244	232.0907914	199.2563138	198.8199655	1.05445502	7.041243934	6.2849883
B7LGB8	TY-2482_chromosome	-	2374129	2375178	262.2673074	330.65172	282.4689317	29.90799476	22.70471793	21.29313664	3.458115329	48.25274652	46.399581
B7LGB9	TY-2482_chromosome	-	2375181	2376677	467.1608022	528.0041294	568.7000809	43.08205129	38.24892583	25.51481494	3.805389138	55.61883205	53.631584
C8UFR4	TY-2482_chromosome	+	2376928	2377689	76.32881122	65.61975611	77.34865991	88.69705639	112.1325073	57.30494025	-0.240939711	0.476552239	0.3644889
D3GVN3	TY-2482_chromosome	-	2377702	2378841	22.27205409	27.7078301	25.77734153	34.13041407	38.28183747	29.21214975	-0.473099743	0.859584176	0.6848231
B7LGC4	TY-2482_chromosome	+	2382124	2383293	50.95361628	50.97639238	41.28465843	40.29876384	62.03602345	44.92241998	-0.057336037	0.04419683	0.0304699
B7LGC5	TY-2482_chromosome	-	2383334	2384491	63.65182577	57.25436509	58.6819458	24.776356	31.00742416	25.13319814	1.166392506	5.485598141	4.8275534
B7LGD2	TY-2482_chromosome	-	2390720	2392216	10.95737852	15.31144584	17.43215552	42.09985606	30.01045477	19.04152625	-1.160905496	2.857943382	2.4338736
B7LGD4	TY-2482_chromosome	-	2392511	2394367	1262.945613	1393.174336	1383.2446	3283.763092	2555.281408	3507.103859	-1.21427388	3.403257276	2.9194235
B7LGD5	TY-2482_chromosome	+	2394572	2395435	665.5372523	647.1373537	700.6084674	1193.981152	1020.978478	1270.65223	-0.765091353	4.337524026	3.7050481
D8EBP7	TY-2482_chromosome	-	2395432	2395821	240.1231711	222.0984279	228.3894356	305.2276679	314.857628	343.2137443	-0.443695833	1.807474443	1.5034038
B7LF78	TY-2482_chromosome	+	2395738	2396715	593.0791902	551.9055245	582.3307546	604.743977	524.9782597	731.0158865	-0.059085826	0.212411234	0.1575077
B7LGD3	TY-2482_chromosome	-	2396843	2397088	64.04847444	70.26009115	88.25008995	51.50525281	70.16483624	60.54866742	0.345634713	0.683804246	0.5362083
B7LGD8	TY-2482_chromosome	-	2397104	2397442	105.5739418	91.05391699	96.32518722	85.636164	64.50635931	80.18159135	0.35890439	1.02640975	0.8250973
B7LGD9	TY-2482_chromosome	-	2397438	2397923	260.3228163	225.392688	259.5647828	216.8845007	192.8879248	198.7361459	0.318390303	0.852548045	0.678718
B7LGE0	TY-2482_chromosome	-	2397919	2398410	399.4798321	348.6845303	368.3513587	310.5536287	298.448382	339.2613342	0.274092626	0.624720107	0.4875578
B7LGD7	TY-2482_chromosome	-	2398413	2400113	1084.371273	1025.877441	1103.973052	727.8078674	585.935297	741.8083063	0.665601547	3.045325675	2.6008239
B7LGE2	TY-2482_chromosome	-	2400113	2401288	633.3220807	682.2076913	655.5793638	199.1239102	179.2975221	185.5611819	1.776737201	16.98262993	15.778129
B7LGE3	TY-2482_chromosome	-	2401281	2402264	921.3211453	896.8434518	939.5501619	163.8606984	122.7457559	147.3313988	2.65908761	33.72022624	32.150786
B7LGE4	TY-2482_chromosome	-	2402270	2403385	2230.845248	2112.652182	2162.892795	230.9757609	174.6424733	184.3703776	3.434818841	50.56699441	48.663524
B7LGE5	TY-2482_chromosome	-	2403395	2403577	217.7292839	184.2349318	211.3339977	14.32870418	19.20115815	12.11232428	3.768358771	48.89896941	47.017775

B7LGE7	TY-2482_chromosome	-	2403983	2404906	66.25131709	91.19773929	81.25163333	90.25412791	79.15673513	71.31743812	-0.10292661	0.030327319	0.0204139
B7LGE1	TY-2482_chromosome	+	2405024	2406061	515.9634955	530.5336401	519.5634988	1986.29111	1586.135022	1720.917906	-1.789980009	15.76124633	14.590451
B7LGE9	TY-2482_chromosome	-	2406107	2406598	378.326339	423.9711821	366.9000544	437.6477896	588.0211868	477.7176514	-0.388098897	1.091877473	0.8821645
B7LGF0	TY-2482_chromosome	+	2406789	2407670	427.1018073	444.5251702	350.1690219	234.5089968	229.331285	218.5186883	0.779750732	4.307550254	3.7437227
B7LGF1	TY-2482_chromosome	-	2407715	2408137	1885.354526	1729.205402	1857.265749	72.04889673	81.93728474	77.63457465	4.59549753	86.83740474	84.178059
B7LGF2	TY-2482_chromosome	-	2408147	2408878	4915.467711	5154.043348	5069.268415	129.3579782	125.5622194	131.5370285	5.284353313	35.21642488	33.590503
B7LGF4	TY-2482_chromosome	+	2409130	2410314	378.2477754	412.0342193	424.6432023	581.2621942	492.2352844	619.4159064	-0.473458992	1.726619533	1.4363041
B7LGF5	TY-2482_chromosome	+	2410457	2411113	1003.514073	1124.576255	976.9580256	481.7015027	604.3599058	532.8835496	0.915654106	5.722788328	5.048608
B7LGE8	TY-2482_chromosome	-	2411159	2412112	183.8078374	241.9800216	169.9385391	107.3454922	90.05060423	88.34089377	0.925658418	6.0735818	5.378024
B7LGF6	TY-2482_chromosome	+	2412249	2413409	1038.893243	907.6200263	950.0019316	947.492621	847.1400664	1184.856542	0.019250524	0.073353968	0.052797
B7LGF8	TY-2482_chromosome	+	2413517	2414341	614.7077236	598.0487664	626.5978154	905.3672313	910.8983913	1132.348669	-0.632493899	3.231302266	2.7650362
B7LGF7	TY-2482_chromosome	+	2414544	2415467	79.4797782	78.77529889	54.91739932	48.59876704	57.4432458	37.28445513	0.482665795	1.632240067	1.352641
B7LGG0	TY-2482_chromosome	+	2415521	2415775	23.76436701	30.10341819	27.06924536	35.65979037	29.99084417	30.37880472	-0.309447213	0.394145407	0.2987552
B7LGG1	TY-2482_chromosome	-	2415824	2418040	668.6476231	646.5053661	601.9397912	1284.105195	1462.42415	1765.094898	-1.19189471	8.101774995	7.2704444
B7LGF9	TY-2482_chromosome	-	2418154	2419563	953.7305383	827.3857092	780.7830946	1171.527554	1063.762849	1331.097085	-0.451000778	1.661485234	1.3778032
B7LGG3	TY-2482_chromosome	-	2419641	2420375	743.5600611	680.0103058	595.8379059	652.3425489	823.6512706	812.8977338	-0.158269018	0.417350185	0.3181504
B7LGG5	TY-2482_chromosome	-	2420611	2422866	1750.754361	1648.950482	1657.772345	2846.99207	2516.221531	2863.997591	-0.694582003	1.491545882	1.228574
D3GVS6	TY-2482_chromosome	+	2422962	2423171	66.53809459	58.05550781	73.5147842	46.57072535	58.37729568	35.99197817	0.515602846	1.388204434	1.1386229
D7YH50	TY-2482_chromosome	-	2423197	2423412	106.9142299	94.19945108	119.1047119	109.7981172	111.0669892	89.79381849	0.069731237	0.084789416	0.0622325
B7LGG6	TY-2482_chromosome	-	2423415	2423894	244.4877893	240.113908	260.9029704	330.937793	344.9273821	325.050495	-0.409623607	1.451116192	1.1928263
B7LGG7	TY-2482_chromosome	-	2423950	2424339	1277.120098	1495.589506	1384.482357	1670.496697	2147.878703	1529.148921	-0.406099787	1.082835009	0.8745078
B7LGG8	TY-2482_chromosome	+	2424491	2425147	216.8362583	219.0513658	219.8463923	194.485648	187.4679017	176.4491748	0.216362086	0.612524545	0.4778386
B7LGG9	TY-2482_chromosome	+	2425147	2426493	342.422593	372.9200047	346.5378903	320.720062	235.5544655	324.7043837	0.244111777	0.696299026	0.5469619
B7LGH1	TY-2482_chromosome	+	2427193	2427771	285.8857529	260.1622772	226.7660451	242.777901	254.7199458	354.6387441	-0.132195309	0.36870962	0.2791082
B7LGH2	TY-2482_chromosome	+	2427805	2428116	1415.806203	1257.718808	1272.148188	1008.109103	1583.678102	1228.905221	0.094912601	0.080148786	0.0582929
B7LGH0	TY-2482_chromosome	-	2428170	2430059	1461.215686	1552.764432	1453.739474	3330.937988	2955.765544	3530.917301	-1.147536841	2.919342325	2.4878834
B7LGH4	TY-2482_chromosome	-	2430091	2430669	692.2230271	518.9557821	486.1673083	1155.447767	935.441975	1064.326553	-0.886958185	4.785799613	4.1779924
B7LGH3	TY-2482_chromosome	-	2430672	2431496	1600.799379	1135.462814	1268.797119	3010.61782	2683.699675	2735.262206	-1.032510362	3.949861451	3.4130593
B7LGH6	TY-2482_chromosome	-	2431524	2431943	515.5202975	415.9825985	436.9247023	734.1530077	738.0384098	759.0805458	-0.667121694	3.234519707	2.7671837
B7LGH7	TY-2482_chromosome	-	2431947	2432573	366.4852147	360.5657779	339.8683703	449.1326546	421.290514	495.7744892	-0.350728623	1.095944791	0.8853055
B7LGH5	TY-2482_chromosome	+	2432778	2434256	5785.291919	5577.07817	5753.283076	10231.09016	8948.430594	11640.2124	-0.818331171	1.542126109	1.2717693
C8TWX3	TY-2482_chromosome	+	2434407	2435075	2633.086298	2637.950991	2751.255744	3334.181188	2862.909754	3762.311413	-0.28554516	0.41812131	0.3185626
B7LGI0	TY-2482_chromosome	+	2435084	2436241	3886.553825	3796.859951	3687.963993	5031.971015	4061.439573	5212.232919	-0.330563345	0.433001062	0.3303197
B7LGH8	TY-2482_chromosome	-	2436285	2437097	177.7961531	224.8240349	182.0272793	156.8335465	153.7530971	177.4055858	0.210439367	0.687650206	0.5396531
B7LGI2	TY-2482_chromosome	+	2437213	2437983	1039.325794	1143.474381	1168.723763	546.1885289	630.227693	569.7446745	0.941848202	5.944562294	5.2595983
B7LGI3	TY-2482_chromosome	-	2438047	2438238	426.6781637	560.1589891	525.6454964	14.4347789	11.76239994	16.90799992	5.099593051	75.05272351	72.735801
B7LGI1	TY-2482_chromosome	-	2438478	2439128	1037.460631	841.2281652	938.8228453	981.8945681	843.5294455	1007.604181	0.037531002	0.011572005	0.007653
D3GVV8	TY-2482_chromosome	+	2439442	2439789	619.3455096	612.3784661	502.7039848	275.5173907	332.2259947	310.473494	0.901835667	4.989664365	4.3673466
B7LGY2	TY-2482_chromosome	+	2443957	2445018	50.69690875	54.37169603	60.26937495	12.47022282	30.22375207	21.07522523	1.441679256	6.017460696	5.323787
B7LGY3	TY-2482_chromosome	-	2445067	2445264	271.3459091	322.958293	262.527099	49.35563989	110.5994069	31.23915464	2.071875089	12.78414853	11.724686
B7LGY5	TY-2482_chromosome	+	2445533	2446159	84.53417048	93.91226175	70.26249893	127.9470959	154.8232878	113.5018871	-0.749082779	2.791396374	2.3755848
B7LGY6	TY-2482_chromosome	+	2446189	2447847	149.4755128	161.8855055	154.4562767	231.1974083	212.9011917	235.4205728	-0.560265206	2.172757979	1.8425302
D3QRZ7	TY-2482_chromosome	+	2447869	2448198	88.50873276	70.52180811	70.41774128	22.73081595	72.33831919	29.48300491	0.939681494	2.348820901	1.9820402
rygD	TY-2482_chromosome	-	2448074	2448223	75.85165977	53.24729142	60.59632797	21.52914503	65.07273234	21.73211129	0.876181359	1.879666971	1.5672608
D3QRZ7	TY-2482_chromosome	+	2448185	2448574	161.1362782	117.5935803	127.8992058	198.6458526	236.6464799	237.9958747	-0.650607992	3.309324345	2.8341021
rygD	TY-2482_chromosome	-	2448451	2448599	160.3244743	129.7081282	126.4998685	210.5017438	250.3076847	242.0137838	-0.712418531	3.57974473	3.077251
B7LGY7	TY-2482_chromosome	-	2448647	2450077	1400.497433	1668.035564	1527.747638	2755.572623	2318.679425	3249.113623	-0.868558534	2.230594742	1.877245
B7LGY4	TY-2482_chromosome	-	2450128	2452965	1417.820257	1542.26596	1418.073946	1928.878193	1412.212389	2253.087364	-0.355939468	0.984610775	0.7896056
B7LGY8	TY-2482_chromosome	-	2452991	2454289	149.0865442	943.7510674	825.8802659	1019.822633	779.7249425	1307.008361	0.191917576	0.80670316	0.641372
D8E4T8	TY-2482_chromosome	-	2454298	2454537	713.0433341	103.3806913	99.52612688	280.8264886	304.8591688	330.0308334	-1.505600844	12.76354741	11.705175
B7LGZ0	TY-2482_chromosome	+	2454531	2455148	377.2275178	297.4564943	302.1549312	1600.310119	1443.236014	1929.574239	-2.287807156	27.42919358	25.987332
B7LGZ2	TY-2482_chromosome	+	2455215	2456450	1437.310699	1412.005813	1491.532284	1894.515592	1824.589979	2183.641555	-0.408221215	1.529334154	1.2603937
B7LGZ1	TY-2482_chromosome	-	2456619	2457437	569.6869084	635.8315211	629.9227899	660.9690812	715.2623772	860.0139209	-0.256204516	0.793293962	0.6301859
B7LGZ4	TY-2482_chromosome	-	2457531	2457896	126.1192044	165.7764585	143.2211406	122.3136489	109.1693015	110.6105562	0.271211595	1.028771894	0.8270054
B7LGZ5	TY-2482_chromosome	+	2458001	2458615	287.4884957	213.0609325	240.880143	215.0099275	306.859859	222.6244104	0.056504284	0.003159318	0.001252
B7LGZ3	TY-2482_chromosome	-	2458634	2459563	305.4646354	428.4344918	394.9400366	32.93905773	28.15991682	31.56581808	3.541487753	46.91466337	45.085634
B7LGZ6	TY-2482_chromosome	+	2461332	2462792	75.51177621	86.199512	66.36671	98.32491107	95.48973269	120.696683	-0.493995074	1.572235319	1.3004575

B7LGG9	TY-2482_chromosome	-	2462841	2463851	628.8831841	641.4252211	641.7401171	1184.155164	1043.755417	1201.043772	-0.843881385	4.999525865	4.3760101
Q1R6R6	TY-2482_chromosome	-	2463863	2464146	2265.048603	2600.644329	2380.736665	1645.657931	3027.12643	1964.539622	0.12320684	0.140166792	0.1032424
B7LH01	TY-2482_chromosome	+	2464088	2464300	3787.623676	4354.933815	4124.484703	3243.467891	5910.159104	3936.609974	-0.08810505	0.093953709	0.0687829
B7LH02	TY-2482_chromosome	+	2464414	2466156	1602.574658	1668.847364	1588.439966	2352.886621	2381.571481	2657.350663	-0.59971608	1.663053963	1.3790061
B7LH00	TY-2482_chromosome	+	2466354	2468192	4792.867396	4667.932478	4992.115084	8469.073744	7053.668217	10171.82887	-0.784814169	1.494965968	1.2312961
B7LH04	TY-2482_chromosome	-	2468276	2468779	383.6157521	381.455417	388.2177437	209.2878103	238.4744501	223.6821562	0.79540094	3.940564582	3.4047439
B7LH05	TY-2482_chromosome	-	2469036	2469797	435.2796716	410.1026405	425.1731456	59.6196168	66.46423816	61.88626886	2.774801193	35.84569572	34.203383
B7LH06	TY-2482_chromosome	+	2470074	2470694	425.7420521	341.5031241	378.9193649	237.0526913	192.7920043	281.0764864	0.757590652	2.907222601	2.4773028
B7LH07	TY-2482_chromosome	-	2470854	2472371	305.015426	346.6765982	302.2243985	313.2238176	251.9351866	377.0678473	0.005190791	0.025752983	0.0173944
D6JEV2	TY-2482_chromosome	+	2472647	2472850	31.17937687	46.61745769	33.48570876	31.73767692	31.90937489	20.20064322	0.253759056	0.701013972	0.5504673
B7LH08	TY-2482_chromosome	+	2472789	2474165	341.9479998	282.0882327	309.603297	560.743533	594.2819992	569.7118346	-0.844554623	4.841470971	4.2301785
A1AFZ4	TY-2482_chromosome	+	2474152	2474559	42.78194537	38.72615838	34.06990481	48.56435204	58.35466468	38.57423634	-0.367148409	0.699394852	0.5493862
B7LH10	TY-2482_chromosome	+	2474761	2475741	459.9807289	393.1024511	474.8875894	126.4164046	147.4437236	155.0575109	1.712701065	13.85186811	12.751231
B7LH11	TY-2482_chromosome	+	2475928	2479017	121.4901198	72.71060343	109.7539977	214.2461615	107.1457313	174.8629428	-0.63617514	2.332914078	1.9691355
B7LH09	TY-2482_chromosome	+	2479529	2480959	28.23430524	33.28507853	34.46623031	47.36782423	33.52571065	54.84964735	-0.489198917	1.209109847	0.9814496
B7LH14	TY-2482_chromosome	+	2481096	2482163	27.31689054	42.30834313	38.43584336	26.02546225	17.21200327	18.5947429	0.697190624	2.005605041	1.6764702
B7LH15	TY-2482_chromosome	+	2482183	2484531	113.0526869	107.9912533	94.12598344	74.29914061	70.97702476	67.23512557	0.534702975	2.240022351	1.8849518
B7LH13	TY-2482_chromosome	+	2484860	2486875	78.33876763	89.82123784	90.55565725	200.7681466	175.6531003	134.7214426	-1.052696556	5.451101364	4.7956469
E6ARB5	TY-2482_chromosome	-	2486926	2487348	110.5040669	111.7027893	137.6883899	87.21478787	98.33316701	86.95448397	0.439555126	1.31751572	1.0772102
B7LH19	TY-2482_chromosome	-	2487613	2488746	207.6822837	261.1436035	223.0479164	422.2947072	385.40013624	437.9810182	-0.901422528	4.41069825	3.8401972
D3GWQ3	TY-2482_chromosome	+	2488795	2489331	168.2458977	182.0016552	154.9190832	94.95576221	111.9753091	107.83995	0.662689498	3.234034866	2.7670511
B7LH21	TY-2482_chromosome	+	2489411	2490091	42.58227604	48.0731083	40.09148971	49.83315381	29.90180231	36.96422611	0.072157257	0.235975475	0.1749825
B7LH22	TY-2482_chromosome	+	2490155	2491156	552.5826533	591.9522318	553.1850705	1713.624276	1355.861973	1669.385365	-1.508941318	11.54184757	10.542418
sraF	TY-2482_chromosome	+	2491236	2491423	175.2269712	132.6255885	48.1665125	94.43115177	134.0225503	66.5088981	0.139845523	0.388840464	0.2951676
B7LH23	TY-2482_chromosome	+	2491442	2492404	133.054566	148.4325127	127.2312069	91.68811187	110.1737166	100.0262298	0.409679004	1.501594685	1.2367007
B7LH24	TY-2482_chromosome	+	2492806	2494047	762.0420109	765.0037376	743.3448396	377.5712037	383.1306202	378.9301792	0.988995806	5.911031046	5.2229613
B7LH25	TY-2482_chromosome	-	2494058	2494606	28.78133729	51.20664661	37.56789502	34.74944042	35.48810629	35.53424371	0.037188336	0.180431115	0.1333394
B7LH26	TY-2482_chromosome	-	2494692	2496176	365.7795291	310.5926557	366.5532003	791.7619943	580.4860924	701.2104028	-0.967575461	5.650979862	4.9824169
B7LH20	TY-2482_chromosome	-	2496194	2497603	482.267215	497.2898943	515.0526795	1093.317192	759.7526291	919.6550615	-0.921135234	4.66679286	4.0700292
B7LH28	TY-2482_chromosome	+	2497966	2499381	256.1377394	170.0580972	217.2116736	297.5328204	285.7354249	289.4748615	-0.361517868	1.430391009	1.1760142
B7LH29	TY-2482_chromosome	-	2499475	2500560	76.15146942	100.5063601	68.93912163	26.69033821	36.5076323	26.52711141	1.349661386	7.763576261	6.9621659
B7LH30	TY-2482_chromosome	-	2500560	2503259	64.32488495	73.21480031	53.76796937	43.42839245	50.16835522	29.4780045	0.523117362	1.858880132	1.5492005
B7LH27	TY-2482_chromosome	-	2503336	2503833	47.64148887	67.2865427	49.9748094	58.40226778	71.10706006	46.49291023	-0.212497598	0.171109315	0.1265093
B7LH33	TY-2482_chromosome	+	2504875	2505648	1820.972651	1810.9684	1816.278015	875.8977624	1009.313982	880.2937055	0.981842332	5.687419489	5.0152931
B7LH34	TY-2482_chromosome	+	2505996	2506655	939.1257019	1088.557699	986.3105425	597.3078384	789.1577044	601.5059829	0.567884835	2.550677396	2.1610781
B7LH35	TY-2482_chromosome	+	2506662	2507042	473.4545059	448.4743327	438.9353387	368.7487611	497.0393762	372.5980091	0.143350358	0.28344869	0.2117018
D3GWR6	TY-2482_chromosome	+	2507177	2507557	2791.641924	2692.458259	2966.564805	4790.240669	3934.032344	5133.244296	-0.681504242	1.290747694	1.0523475
B7LH37	TY-2482_chromosome	+	2507598	2507900	3125.213544	3027.047984	3156.60555	6653.410508	5504.793742	6855.467782	-1.015920079	2.227351603	1.8742165
B7LH36	TY-2482_chromosome	+	2507906	2508307	3019.037714	2875.194597	3028.522766	7307.582525	6008.062876	7101.594929	-1.185843992	2.818919623	2.3991237
B7LH39	TY-2482_chromosome	+	2508300	2508596	2057.316927	1999.149472	2023.586842	3623.191236	3386.258988	3633.68788	-0.802503258	1.647670067	1.3659949
D3GWS0	TY-2482_chromosome	+	2508695	2509174	166.7526932	181.8756948	151.5902125	126.9617842	137.3488261	188.8311466	0.161372781	0.291160798	0.2177269
B7LH38	TY-2482_chromosome	+	2509247	2510230	192.969998	176.0830138	195.5039637	292.8226685	251.9654017	349.5186488	-0.607140873	2.827219384	2.0642216
B7LH42	TY-2482_chromosome	+	2510526	2510886	955.4970258	1091.943738	1149.674325	664.7806636	881.0121226	826.1102368	0.461850712	1.518378757	1.2510262
E1U309	TY-2482_chromosome	+	2511001	2511695	250.4794495	259.9763869	250.8302958	114.5302524	146.5809321	139.3720941	0.945842207	5.222965585	4.5823204
B7LH41	TY-2482_chromosome	-	2511745	2512638	649.6776494	743.8527154	729.6226347	335.3675841	353.0790777	390.534965	0.981587329	5.790995082	5.1111978
B7LH45	TY-2482_chromosome	+	2512743	2513441	95.57025681	114.7336464	99.58714302	136.0377237	123.7260561	130.2684222	-0.386076645	1.040903727	0.8373163
B7LH44	TY-2482_chromosome	-	2513695	2515002	464.9395562	572.9624325	501.6891353	474.668153	3228.720508	4083.586243	-3.006656334	15.29573993	14.149612
B7LH48	TY-2482_chromosome	-	2515033	2516298	842.7694061	888.2201206	826.498035	2802.444286	2662.819562	2360.495677	-1.660304165	14.08866912	12.978327
B7LH49	TY-2482_chromosome	-	2516639	2518000	67.93809462	74.45015972	73.31090627	2497.866723	1708.895596	2478.332422	-4.970176709	77.07911622	74.675043
B7LH50	TY-2482_chromosome	-	2518075	2518461	37.35071255	40.71423454	36.19435113	2074.794868	1471.369301	2242.695064	-5.678560086	95.27300444	92.458757
B7LH51	TY-2482_chromosome	-	2518478	2520769	170.8349316	238.2767046	235.2902158	11164.42181	8503.355931	12625.4931	-5.665971064	32.22183658	30.679762
B7LH47	TY-2482_chromosome	-	2520806	2522023	119.9299512	169.2144954	183.3164952	3299.398648	2675.408665	3802.999304	-4.366405815	63.98031791	61.826122
B7LH53	TY-2482_chromosome	-	2522040	2523368	423.2005872	407.9031479	471.6270188	4989.440436	3495.331902	5045.077205	-3.346906423	17.40421449	16.188914
B7LH54	TY-2482_chromosome	-	2523393	2524379	521.0396876	582.0014982	608.9044814	4730.39116	2524.299116	2659.400245	-2.638979965	16.1855884	15.004809
B7LH55	TY-2482_chromosome	-	2524481	2525416	332.6060389	407.9577321	343.1576257	1728.121383	1387.861957	838.9871867	-2.030028603	14.34640737	13.228641
B7LH57	TY-2482_chromosome	+	2526766	2527950	7.365470148	6.187552276	10.83715164	48.56434319	35.58128483	2.264539906	-1.929014317	3.335958266	2.8567385
B7LF78	TY-2482_chromosome	+	2528291	2529268	523.3521984	566.4920021	569.8421308	592.9447693	495.8389578	721.757907	-0.101793988	0.252223451	0.1876018

A1AG32	TY-2482_chromosome	+	2529684	2530211	177432.3358	169213.2577	165745.2444	70623.33694	189992.1461	56191.0907	0.687523299	0.813616646	0.6474501
rrpB	TY-2482_chromosome	-	2529733	2530109	177387.4656	169154.0144	165685.8232	70583.93317	189946.6438	56139.78225	0.687671576	0.814354602	0.6478336
B7LH60	TY-2482_chromosome	-	2530145	2531368	734.1422789	809.0640336	906.8009232	580.5030539	466.7020559	703.3132072	0.527865941	1.637036901	1.3568154
B7LH61	TY-2482_chromosome	-	2531387	2532274	1031.725864	1243.549093	1273.131653	770.5397151	544.9388579	831.0495729	0.718801587	3.309986677	2.8344801
B7LH62	TY-2482_chromosome	-	2532307	2533074	870.2014406	1037.577587	1071.767723	529.103431	359.3073617	482.7073704	1.08714697	6.791520948	6.0491554
B7LH59	TY-2482_chromosome	-	2533093	2534424	971.1906314	1239.775853	1059.568669	277.9659855	172.6719878	329.5283314	2.031876837	17.67847195	16.455289
B7LH63	TY-2482_chromosome	+	2534798	2536366	1898.636053	1934.98445	2154.55459	962.5827451	687.8681585	820.9798204	1.265371416	8.655723094	7.7950281
D7ZZI1	TY-2482_chromosome	+	2536464	2536850	194.9666796	223.7989797	230.5783241	197.6426922	213.913989	181.7830727	0.110090065	0.277670984	0.2078281
B7LH64	TY-2482_chromosome	+	2536853	2537314	245.0997761	265.5307245	291.3904981	233.5244158	202.9310091	174.0457326	0.358115218	1.25019037	1.0176812
B7LH66	TY-2482_chromosome	-	2537375	2538181	457.4388631	537.7686077	536.8931272	324.407913	313.9398115	330.1862731	0.645678067	2.916566308	2.485621
B7LH67	TY-2482_chromosome	+	2538430	2539707	80.21216318	60.89554269	72.62643334	43.98807064	39.98786455	47.23092377	0.76790446	2.611600834	2.2151807
B7LH71	TY-2482_chromosome	+	2540980	2541861	50.59885188	63.7062651	62.85809268	34.41070597	41.85662123	49.64979591	0.517466693	1.34766901	1.1035943
B7LH68	TY-2482_chromosome	+	2541882	2542313	39.99780195	58.20104903	58.36506553	43.85699832	41.80040164	53.64812369	0.16100325	0.28295099	0.2114285
B7LH73	TY-2482_chromosome	+	2542292	2543443	100.7989604	113.0301759	112.9726996	110.5394663	84.51910678	109.0444241	0.086604121	0.197707482	0.1460617
B7LH74	TY-2482_chromosome	+	2543796	2544947	49.01384675	21.4801473	41.73046265	48.12081081	39.06247629	44.72673957	-0.090124615	0.333973436	0.2508539
B7LH72	TY-2482_chromosome	+	2544963	2545820	27.71343103	23.99319236	27.08492538	33.55029354	19.10172748	18.77094676	0.094996558	0.154419411	0.1129125
B7LH78	TY-2482_chromosome	+	2549245	2549826	39.69819361	46.92610096	28.54130915	25.17090224	31.1236437	8.668394823	0.632623282	1.80641344	1.5030937
B7LH82	TY-2482_chromosome	+	2550634	2553147	114.9590712	138.2335732	130.0941506	118.4155089	103.7066527	104.0624385	0.18035038	0.582402455	0.4522304
B7LH80	TY-2482_chromosome	+	2553161	2554249	137.5745732	158.0965778	120.4636853	139.234133	134.6664682	138.1522378	-0.054502411	0.006296703	0.0038156
B7LH84	TY-2482_chromosome	-	2554298	2555155	344.9631921	304.3628517	284.2919569	485.2758976	496.8946118	481.5760499	-0.647138361	2.805591628	2.3883205
B7LH85	TY-2482_chromosome	+	2555219	2557252	1202.707313	967.659674	1131.033845	1611.546182	1266.618837	2006.997711	-0.477747471	1.971874706	1.6465805
B7LH86	TY-2482_chromosome	+	2557213	2557605	287.2184137	268.4520552	277.9297731	284.339186	242.8722031	324.6031017	0.002635315	0.050058898	0.0350534
B7LH87	TY-2482_chromosome	+	2557628	2558215	590.0925407	534.186647	590.315328	1046.813663	1104.844355	965.8766953	-0.844375084	4.972235802	4.3515103
B7LH83	TY-2482_chromosome	+	2558228	2558800	561.64321	536.2781968	557.900629	1099.327783	1058.353148	1143.189261	-0.976847146	6.601715174	5.868712
B7LH89	TY-2482_chromosome	-	2558920	2559957	394.8499368	399.1685926	384.1671623	147.8101469	123.6636522	160.248128	1.450278934	11.65213436	10.644337
D3GXP1	TY-2482_chromosome	-	2560033	2560710	181.4735088	223.1351826	211.9999008	108.8564235	101.8434972	133.8133244	0.837951245	4.252015057	3.6937288
B7LH91	TY-2482_chromosome	+	2560793	2561308	126.9114857	163.1488218	136.5470746	209.391561	238.5060512	197.5736838	-0.667076316	2.500234973	2.1158311
B7LH88	TY-2482_chromosome	-	2561294	2561734	225.0936826	236.3844601	209.7585798	182.2847975	182.5852276	142.3709442	0.424120569	1.751015366	1.4571577
B7LH93	TY-2482_chromosome	+	2561785	2562084	738.6836712	813.8366428	843.9180503	245.2883206	197.4063086	210.6092976	1.84489225	18.1655455	16.927804
B7LH94	TY-2482_chromosome	-	2562077	2562577	3924.497661	4165.322135	4495.725116	1459.586273	1138.372551	1302.480473	1.677013047	5.492238586	4.833327
B7LH95	TY-2482_chromosome	-	2562574	2563095	5129.286301	5340.01922	5816.194333	1795.618002	1581.606257	1739.215179	1.676132214	5.182159017	4.5460658
B7LH96	TY-2482_chromosome	+	2563304	2564296	793.3323131	811.8632732	895.4685674	46.47355255	31.76625172	33.11948855	4.452392329	68.20574423	65.977762
D3GXP8	TY-2482_chromosome	+	2564290	2565183	493.6731204	428.7852529	478.7112952	47.36099532	36.28619581	52.33897238	3.410581596	46.66186628	44.847619
B7LH98	TY-2482_chromosome	+	2565392	2566396	528.2102933	418.8649031	468.0526277	672.8483646	708.889251	842.958932	-0.570858511	2.72530695	2.3187734
B7LH97	TY-2482_chromosome	-	2566520	2567761	394.3431703	620.6853234	341.8865472	325.6426455	323.0380847	351.1539087	0.126047331	0.162420267	0.1191298
B7LHA0	TY-2482_chromosome	-	2567918	2569804	9060.008572	8604.266924	10010.04802	32224.29074	26733.55732	34666.16659	-1.713470237	4.479548635	3.9008295
B7LHA1	TY-2482_chromosome	-	2569987	2570868	12944.3201	13128.88418	12817.73789	15712.17574	15432.64305	15374.32492	-0.268297641	0.285106063	0.2130223
B7LH99	TY-2482_chromosome	-	2570980	2573112	24594.12	24414.04385	26095.22092	35314.93258	26576.07642	37849.87536	-0.386773356	0.486765148	0.3734684
sraG	TY-2482_chromosome	+	2573169	2573342	990.2303959	907.3060002	926.8957405	765.6463201	905.6164262	679.2338364	0.264010355	0.757238049	0.5996361
B7LGI7	TY-2482_chromosome	-	2573362	2573628	16363.44986	15929.29281	16646.53399	7017.129449	11641.62182	8109.723094	0.907611487	1.474968179	1.2135626
B7LHN1	TY-2482_chromosome	-	2573780	2574721	4458.503197	4621.239929	4881.894274	5396.764454	3763.81937	4846.64643	-0.02036601	0.004292316	0.0021938
D3GXQ8	TY-2482_chromosome	-	2574724	2575149	2095.300205	2169.289826	2400.826002	2815.913643	1906.400614	2422.026752	-0.114002539	0.111410266	0.0815762
B7LHN3	TY-2482_chromosome	-	2575289	2577958	24671.05181	26749.72734	27452.00898	46043.45193	29487.28305	45431.79721	-0.628174288	0.832852294	0.662734
B7LHN0	TY-2482_chromosome	-	2577986	2579470	9092.094311	9703.046289	9938.599312	21042.42301	14621.61351	21792.79804	-1.000193677	1.821029711	1.5156003
E6WIP2	TY-2482_chromosome	-	2579501	2580076	1964.571872	1983.25394	1892.78367	3472.132832	3171.467572	3594.138937	-0.815234983	1.661830233	1.3779653
metV	TY-2482_chromosome	-	2580157	2580233	1047.113898	848.3378968	353.1730884	65.29319761	216.3676815	56.32402841	2.636983333	11.21388718	10.228484
B7LHN6	TY-2482_chromosome	+	2580581	2581921	631.0793747	674.5817999	657.5803632	919.4478039	865.4212086	918.2738252	-0.474806236	1.80531801	1.5021895
B7LHN7	TY-2482_chromosome	-	2581935	2583557	98.73442529	107.1104719	85.51501804	58.33324096	73.84516145	49.08779235	0.615542744	2.588341497	2.1959328
leuU	TY-2482_chromosome	-	2584014	2584100	580.7394602	516.9774388	356.4390821	325.4638558	461.620421	280.7840682	0.381678297	1.201583092	0.9752067
B7LHN4	TY-2482_chromosome	-	2584118	2584447	3612.047207	3552.368575	3641.199115	3048.533848	5666.356174	2930.541486	-0.097939222	0.108973769	0.0798776
B7LHN9	TY-2482_chromosome	-	2584678	2586012	2788.067276	2399.333614	2662.089608	4566.298851	3672.834984	4963.482879	-0.702558292	1.39784858	1.1469125
B7LHN8	TY-2482_chromosome	-	2586008	2586853	711.1902052	688.2062154	717.6959395	957.3407299	879.0080688	1177.023405	-0.464219592	2.009196357	1.679452
B7LHP1	TY-2482_chromosome	-	2586946	2588877	13476.10085	12544.9254	13270.07129	27687.62095	24871.64353	28089.59428	-1.017651725	1.919499936	1.6011929
B7LHP2	TY-2482_chromosome	-	2588980	2589606	2789.290714	2967.45241	3133.617425	3896.335668	4128.946474	3623.411108	-0.396121625	0.556537666	0.4305827
A1AG83	TY-2482_chromosome	-	2589665	2589964	1880.174744	1754.430406	1694.66004	1402.162725	2421.041219	1441.096302	0.029775986	0.027257457	0.0182471
B7LHP0	TY-2482_chromosome	-	2590184	2590657	578.0095726	592.548379	604.1483331	1677.370312	1711.848141	1446.162412	-1.466882321	11.2182979	10.231973
B7LHP4	TY-2482_chromosome	+	2590905	2592335	414.8587558	480.9550653	460.2097171	638.2758311	622.4404856	676.1246516	-0.530832788	1.943197654	1.6221328

B7LHP6	TY-2482_chromosome	-	2592381	2593550	1313.696611	1542.434295	1573.506741	2394.867096	2147.593663	3118.722549	-0.76027256	2.417707382	2.044144
B7LHP7	TY-2482_chromosome	-	2593569	2594531	657.2708676	697.7437413	672.7381046	835.7448038	959.2285043	936.6660935	-0.424804961	1.607975902	1.3320866
B7LHP5	TY-2482_chromosome	-	2594661	2594915	7869.497427	7648.055243	7992.173561	10470.51317	14246.12189	10183.22088	-0.558224296	0.82627948	0.6574542
D3GXS5	TY-2482_chromosome	+	2594885	2595451	10821.16527	10859.98947	11436.00686	11981.40111	17979.10939	14077.32969	-0.461447103	0.625464445	0.4879105
B7LHQ0	TY-2482_chromosome	+	2595506	2596474	2147.303249	1773.245224	1804.233952	1309.00266	1282.411861	1152.570117	0.724973409	3.145919208	2.6868768
B7LHQ1	TY-2482_chromosome	+	2596705	2596980	82.85318215	108.5122652	79.58752591	112.8032106	119.2135818	123.5909296	-0.467631943	1.278976976	1.0427133
B7LHP8	TY-2482_chromosome	-	2597034	2598290	1702.921065	1487.470005	1667.812375	3791.898726	3415.337967	4196.547496	-1.179323502	3.24277287	2.7748782
A7ZS88	TY-2482_chromosome	+	2598411	2598749	396.4945119	331.1297189	377.0302341	544.4184176	566.0809509	510.6306665	-0.519629549	2.215727056	1.8645188
B7LHQ2	TY-2482_chromosome	-	2598762	2599052	782.9876588	709.5965683	832.0830228	1035.500329	1141.239444	1070.965922	-0.435674027	1.91205908	1.5953335
B7LHQ5	TY-2482_chromosome	-	2599055	2599687	1583.181633	1481.926109	1624.264522	2542.820328	2475.313783	2593.042651	-0.671238089	2.089448331	1.7504567
B7LHQ6	TY-2482_chromosome	-	2599709	2600257	707.5973318	629.2151795	637.6678924	1020.380379	1126.675599	1070.941241	-0.680260517	3.650801545	3.1400586
B7LHQ4	TY-2482_chromosome	-	2600265	2601044	710.5361494	654.8079167	662.7901726	738.540205	858.2198719	826.1702556	-0.226336958	0.704088474	0.5528807
B7LHQ8	TY-2482_chromosome	-	2601055	2601861	919.8447826	871.3211864	937.5947151	1061.275387	1066.586047	1018.390524	-0.191772509	0.546241706	0.4214298
B7LHQ7	TY-2482_chromosome	+	2602071	2603045	917.5854898	980.5324411	845.5163022	302.2815221	388.6473084	386.6131234	1.350870862	9.858229557	8.9336838
B7LHR0	TY-2482_chromosome	+	2603062	2604045	1571.086425	1699.749511	1676.357017	740.5292388	716.1206224	955.9539395	1.066009215	6.120586524	5.4213647
B7LHR1	TY-2482_chromosome	+	2604069	2604632	861.4204215	891.3437658	917.1273689	732.8623761	612.3316155	865.218725	0.300248877	0.760426	0.6022766
B7LHR2	TY-2482_chromosome	+	2604632	2605204	887.6054621	970.3524252	879.9619119	1156.42843	1053.755934	1303.488329	-0.370861149	1.106114397	0.8939268
B7LHR3	TY-2482_chromosome	+	2605176	2605730	1229.4303	1182.914652	1268.381945	1840.027022	1609.758756	2243.952888	-0.579695724	2.602870977	2.2083456
B7LHR4	TY-2482_chromosome	+	2605740	2606462	1456.166741	1316.857069	1324.31374	1844.394487	1856.418312	2513.563382	-0.536941492	2.347585291	1.98116
B7LHR5	TY-2482_chromosome	+	2606513	2607943	4418.247749	4335.264002	4286.175282	5706.16957	5586.759179	6372.635605	-0.420462454	0.619731438	0.483742
B7LHR6	TY-2482_chromosome	+	2607969	2608253	1481.449988	1414.846779	1543.066486	2447.044977	2283.287271	2343.153553	-0.658103015	2.021866144	1.6904777
B7LHR7	TY-2482_chromosome	+	2608374	2608862	1350.591588	1273.262545	1398.475596	2208.708812	1868.246739	2196.963967	-0.619829989	2.763371759	2.3505247
B7LHQ9	TY-2482_chromosome	+	2608911	2609762	1169.738022	1074.558395	1055.56963	2142.314958	1824.555271	2244.232603	-0.900053979	5.105715865	4.4753479
B7LHR9	TY-2482_chromosome	+	2609762	2610031	188.5142571	214.2408559	144.0229883	201.389885	219.3233044	230.1023585	-0.319661333	0.64241082	0.5020075
B7LHS0	TY-2482_chromosome	+	2610247	2610876	2421.565085	2228.815709	2347.785519	3922.156524	5718.039786	4212.862266	-0.95138332	2.127894886	1.7843097
B7LHS1	TY-2482_chromosome	-	2610879	2611604	933.2602462	975.8914865	919.6075015	1086.715447	1314.22817	1018.595659	-0.29716104	0.737718258	0.5820271
B7LHR8	TY-2482_chromosome	+	2611604	2612254	1128.328693	1172.50635	1318.075548	911.0311443	837.2206846	827.6452765	0.493332279	1.79121101	1.4896097
ryhA	TY-2482_chromosome	+	2612372	2612479	202.964987	247.9182189	323.5584356	136.9780629	106.3969838	113.2835531	1.121392721	6.273889156	5.5644212
B7LHS3	TY-2482_chromosome	-	2612487	2614820	3300.884914	3405.282918	3453.058289	2355.924624	1880.061023	2236.471015	0.638334732	1.175549123	0.9552202
B7LHS4	TY-2482_chromosome	-	2614919	2615845	184.5874422	188.5731512	211.4814142	32.99593696	28.17175051	29.0327695	2.694126966	32.84109165	31.28555
D7Z4E7	TY-2482_chromosome	-	2616240	2616473	79.03930546	103.9340203	87.05798569	51.40691681	75.64603798	64.46666417	0.464261957	1.500159025	1.2356152
B7LHS5	TY-2482_chromosome	+	2616427	2620977	1511.230798	1689.181634	1626.162235	2205.987197	1628.803885	2624.059312	-0.413226463	0.937542191	0.7502213
B7LHS6	TY-2482_chromosome	+	2620993	2622408	799.3754209	814.1180295	833.9131359	971.4934581	743.3724101	995.666621	-0.143591684	0.341135967	0.2568627
C5W9G1	TY-2482_chromosome	+	2622595	2623071	42.52317216	54.75503145	39.32273956	39.73580152	26.2720376	35.46576263	0.322045016	0.895436798	0.7155225
B7LHS7	TY-2482_chromosome	+	2623055	2623393	227.2107348	220.1131694	272.3676051	40.66256839	62.17812528	19.31232906	2.535388187	20.15170784	20.684742
B7LHS9	TY-2482_chromosome	-	2623475	2623936	157.7873512	157.2193488	155.1001577	99.83732563	87.28465737	107.6803002	0.68081999	3.229957265	2.7642927
B7LHT0	TY-2482_chromosome	-	2623936	2624808	222.1802799	213.8538113	201.8657965	202.3362955	177.3857741	207.738684	0.115235677	0.251959614	0.1875587
B7LHT1	TY-2482_chromosome	-	2624808	2625494	146.0121691	98.27477743	149.534131	181.5378154	150.0942332	157.9807058	-0.23081908	0.823028742	0.6547645
B7LHS8	TY-2482_chromosome	-	2625545	2627032	227.3268381	231.6896243	221.7491839	192.2608667	165.6381311	126.8381902	0.418491977	1.666089003	1.3813084
B7LHT3	TY-2482_chromosome	-	2627144	2628034	584.6809629	577.9245957	684.3017233	471.7212954	399.4385559	444.6679985	0.511483985	1.81502341	1.5099783
B7LHT2	TY-2482_chromosome	-	2628159	2628947	1067.9226234	1030.748715	1061.651809	510.6683315	534.1626179	624.6095121	0.96264695	5.584180626	4.9222214
B7LHT5	TY-2482_chromosome	+	2629375	2630739	145.1481205	153.4433562	119.7762658	99.12477847	104.6828644	94.86038023	0.428744866	1.734848406	1.443045
B7LHT6	TY-2482_chromosome	-	2630788	2631282	2746.877242	2568.606281	2615.790776	3326.220505	3274.277307	3648.026344	-0.338525573	0.514135897	0.3956201
B7LHT4	TY-2482_chromosome	-	2631291	2631926	4305.309063	4060.265065	4425.638703	6324.17975	6054.517247	6989.657702	-0.559904025	0.955285783	0.7654676
Q0TCN7	TY-2482_chromosome	+	2631868	2632074	1627.333443	1558.73361	1571.964659	1694.87573	1947.588616	1628.954249	-0.145413394	0.330231521	0.2483777
B7LHT8	TY-2482_chromosome	-	2632324	2632713	21735.96072	21266.0966	20972.94338	21453.03773	24693.3913	22747.03311	-0.09642769	0.100180401	0.0732921
B7LHT9	TY-2482_chromosome	-	2632732	2633157	23758.04797	23672.08539	24720.5684	20134.92795	23055.27478	22954.76011	0.155986351	0.119389276	0.0875119
B7LHU0	TY-2482_chromosome	-	2633379	2634503	510.6952791	513.01802	550.750389	853.0364325	876.3874328	848.6316956	-0.698682408	3.458750812	2.9681972
B7LHU1	TY-2482_chromosome	+	2634697	2635092	3084.755052	3140.184167	3288.711509	2188.497225	2847.662933	2398.479852	0.379278056	0.498463662	0.3833101
B7LHU2	TY-2482_chromosome	+	2635249	2636613	800.7017098	957.3058935	912.4909977	1019.875959	901.76801	1128.520626	-0.206395463	0.487583435	0.3740396
B7LHU3	TY-2482_chromosome	+	2636706	2637770	328.1026606	407.8860752	342.5054388	298.6003883	346.7878085	311.8856876	0.119671936	0.384591739	0.2919192
B7LHU4	TY-2482_chromosome	-	2637839	2638774	13469.41745	11721.25619	13289.28638	7632.547156	7287.676949	7179.406254	0.828638149	1.375744756	1.1280188
B7LHT7	TY-2482_chromosome	+	2639209	2639676	437.3388347	461.3121745	496.6649186	598.5495288	814.6402803	636.9641542	-0.533915534	2.033586325	1.7005766
B5YSW4	TY-2482_chromosome	+	2639993	2640305	502.277848	609.6704793	598.9528749	281.9009573	484.8984414	306.8035399	0.744754096	3.297776779	2.8239733
B7LHU7	TY-2482_chromosome	-	2640366	2640635	83.60785104	85.65196117	99.95310336	48.44013356	120.5577947	51.942966	0.328354222	0.501118148	0.3852197
B7LHU8	TY-2482_chromosome	-	2640730	2642694	116.5201429	140.3022439	118.0203985	126.6756621	138.3724394	121.203576	-0.102377004	0.097114705	0.0714395
B7LHU9	TY-2482_chromosome	-	2642703	2643632	106.2468419	114.6703179	87.4207602	75.44176201	74.59591728	81.46864872	0.366520896	1.289608793	1.0517025

B5YSW8	TY-2482_chromosome	-	2643643	2643912	43.99573928	57.32930523	41.99219203	49.9483456	33.60839608	28.09331107	0.195910614	0.653498144	0.5112148
B7LHV1	TY-2482_chromosome	+	2644026	2644952	500.0797777	571.5353114	589.7516873	246.2956586	216.5093438	262.92335	1.195253298	7.905341671	7.0923331
B7LHV2	TY-2482_chromosome	-	2645086	2646528	2452.696174	2822.579277	2813.36179	3120.140447	2802.887934	3238.902496	-0.191336105	0.212869969	0.1576423
B7LHU5	TY-2482_chromosome	-	2646687	2650484	2215.151857	2194.399104	2020.12285	1335.528822	1531.655997	1469.522869	0.569627675	2.278283691	1.9193161
B7LHV4	TY-2482_chromosome	-	2650555	2652021	1185.161601	1305.678161	1316.590594	1384.213367	1526.189416	1443.270817	-0.195052011	0.463882282	0.354765
B7LHV5	TY-2482_chromosome	-	2652014	2652604	533.099548	594.2364986	542.6140752	504.8157464	581.5779404	527.6391597	0.027009314	0.088688834	0.0649275
B7LHV6	TY-2482_chromosome	-	2652616	2653101	331.9115758	397.5968689	322.6072839	310.7001033	412.2908602	445.6301215	-0.156845273	0.318061273	0.238842
B7LHV8	TY-2482_chromosome	-	2653104	2654204	827.9959596	750.0672958	736.6627277	1178.870023	1430.56768	1832.006909	-0.859496806	4.723962837	4.1219028
B7LHV9	TY-2482_chromosome	-	2654273	2655313	1492.745306	1348.140199	1478.976925	3132.784101	3299.761793	4580.291686	-1.257919723	3.709191812	3.1919226
D7X6F8	TY-2482_chromosome	+	2655282	2655470	197.9894336	233.5082149	217.2064834	377.161086	395.7832812	562.3817701	-1.007908606	5.600958929	4.938125
B7LHW0	TY-2482_chromosome	+	2655421	2655606	156.1603045	184.2467634	158.97542823	194.4474835	258.4829744	287.7074419	-0.554014438	2.103564199	1.7633246
B7LHW1	TY-2482_chromosome	-	2655621	2657558	747.8541859	759.5600962	699.6802425	765.4371556	921.0336985	852.5248952	-0.201294731	0.530246313	0.4088822
B7LHV3	TY-2482_chromosome	+	2657710	2658681	1042.311297	1169.004141	1160.099899	628.8580528	631.5195907	765.3468457	0.752669105	3.776762661	3.2522314
D3GXL9	TY-2482_chromosome	+	2658867	2659254	81.68330432	61.12334234	77.32949397	58.22487822	61.86024811	70.82029954	0.300294856	0.492932832	0.3786468
Q53295	TY-2482_chromosome	+	2659501	2659686	1543.057172	1253.087742	1303.139528	2229.378527	2172.220902	2713.73604	-0.732742218	2.638088971	2.238576
B7LHW3	TY-2482_chromosome	+	2659662	2660129	2949.728911	2391.696524	2541.779292	4951.55808	4338.085854	6222.307963	-0.904201422	2.052086103	1.716817
B7LHW4	TY-2482_chromosome	+	2660143	2661489	8189.81292	6888.743603	7024.733531	12940.05465	11456.53412	14972.64203	-0.786171543	1.442851948	1.1861116
B7LHW5	TY-2482_chromosome	+	2661601	2661840	56.26612105	57.94175994	38.41663442	75.92150498	80.04872974	95.73636496	-0.756484165	2.629930786	2.2313718
B7LHW2	TY-2482_chromosome	+	2661833	2663281	316.4012317	311.4896872	284.3533546	494.3482413	464.0395905	599.5245224	-0.756227588	3.656701717	3.1450324
B7LHW6	TY-2482_chromosome	+	2663296	2664174	717.1723493	675.6686469	742.1999164	1041.383191	1016.462292	1241.609585	-0.57535262	2.898966427	2.4705803
B7LHW7	TY-2482_chromosome	+	2664506	2665468	2606.64624	1918.107585	1995.623139	4111.509308	5102.769855	4124.675169	-0.987055909	2.313897021	1.9524233
B7LHW8	TY-2482_chromosome	+	2665497	2665790	727.31455	557.5802659	536.411291	1276.224645	1657.28263	1549.719032	-1.242843727	8.697505405	7.8354273
B7LHW9	TY-2482_chromosome	+	2665879	2666760	54.8667788	37.84120891	45.47416619	60.86322419	77.45837358	59.43744161	-0.453167751	1.433877806	1.1788526
B7LHX4	TY-2482_chromosome	+	2669259	2672360	219.3958837	151.9577254	200.8147576	156.7204811	139.5895837	152.0625332	0.522018543	1.589591292	1.3153154
B7LHX7	TY-2482_chromosome	+	2673376	2674290	53.67917067	74.63945694	50.49310277	77.2734199	59.08986741	58.1361367	-0.274301646	0.236951319	0.1755202
B7LHX8	TY-2482_chromosome	+	2674361	2675539	42.26309907	69.34117517	52.06469042	44.20587703	38.19107415	36.99907838	0.320704211	1.035220128	0.8320886
B7LHX5	TY-2482_chromosome	+	2675552	2676652	28.27366544	39.19915791	27.48635588	43.0163101	28.08241139	39.37057416	-0.329846031	0.389223787	0.2952537
B7LHY0	TY-2482_chromosome	+	2676663	2677418	39.54621388	54.00700161	33.23949395	56.53996793	49.07748573	57.78722916	-0.483764042	0.88062902	0.7030126
Q8CLX4	TY-2482_chromosome	+	2677629	2678106	11195.11322	42142.48244	525.1876222	36097.80832	341734.9207	14549.76014	-3.718451978	2.59767782	2.2045639
rrfV	TY-2482_chromosome	-	2677650	2677769	7568.117801	27805.67178	315.9039086	20696.92739	198856.8303	8395.313355	-3.520686326	2.334901665	1.9709032
thrV	TY-2482_chromosome	-	2677807	2677882	40.79979368	329.4895002	10.260228	629.4302731	1758.865663	589.1099194	-3.920819531	5.056093424	4.4289635
rrfC	TY-2482_chromosome	-	2677895	2678014	3597.783224	14127.5786	166.6867984	15253.33614	142606.5383	5927.218754	-4.064663493	3.04588037	2.6011137
rrfE	TY-2482_chromosome	-	2678108	2681011	579282.199	5969947.426	1623912.548	1370125.629	1154855.021	6022881.317	-0.453216752	0.035362172	0.0240837
C1HUN0	TY-2482_chromosome	+	2678333	2678689	74969.52177	764818.2484	206916.4755	48041.78107	30642.7816	338161.1304	1.027301543	1.168692287	0.9497834
C1HUN1	TY-2482_chromosome	+	2678693	2679145	101024.2229	1134807.387	280499.5623	81622.8154	48292.31944	557039.9751	0.797580411	0.7935621	0.733621
C1HUN3	TY-2482_chromosome	+	2679222	2679425	47654.68722	599604.3979	149693.8507	121867.134	1011770.6441	599245.739	-0.463232135	0.024160159	0.0161895
Q1R3T8	TY-2482_chromosome	+	2680483	2680785	91833.31532	759694.3215	246570.3793	308443.0769	258144.8314	1237450.922	-1.036531025	0.591741853	0.4598972
gltV	TY-2482_chromosome	-	2681205	2681280	1663.6051	1633.396818	890.3069164	302.125645	1262.327822	183.0672703	1.145230418	2.622276563	2.2241173
rrsD	TY-2482_chromosome	-	2681366	2682907	865398.0894	3841816.489	1869718.658	203393.2007	240744.7424	764829.9727	2.307411636	4.450766179	3.673541
Q57H85	TY-2482_chromosome	-	2681469	2681786	212280.4223	948480.5008	431403.4979	14208.59886	17912.16168	87617.56464	3.658258576	7.57133169	6.783559
E9WNY3	TY-2482_chromosome	+	2682761	2682994	125613.3644	573698.8838	245012.4994	42009.50646	65670.11596	121307.1724	1.799960321	3.68972158	3.1740152
C6UV66	TY-2482_chromosome	+	2683088	2683930	2619.853458	2628.77448	1978.846828	1471.311858	2057.791447	1553.990274	0.466165849	1.183868191	0.9613879
B7LHY2	TY-2482_chromosome	-	2683912	2684165	518.7342836	665.4706785	579.6203448	654.4355527	773.5848458	756.3995721	-0.341806254	0.887377254	0.7089247
B7LHX9	TY-2482_chromosome	-	2684166	2684981	732.4186316	1089.918111	971.9681768	1354.460001	1337.671993	1904.349659	-0.730602815	2.87689378	2.4502902
B7LHY4	TY-2482_chromosome	-	2684989	2685558	718.3843717	872.5171018	878.2827318	709.5331627	625.0293625	1098.872878	0.076046243	0.03370146	0.022929
B7LHY5	TY-2482_chromosome	-	2685566	2686105	1497.74381	1648.373657	1699.571183	1150.437662	1168.479522	1275.994702	0.442753866	1.458131594	1.1982866
B7LHY6	TY-2482_chromosome	-	2686137	2686607	3848.208778	4224.164884	4326.630362	2675.932593	3360.951208	2563.128891	5.118924821	0.834429362	0.6634934
B7LHY7	TY-2482_chromosome	-	2686582	2687703	1942.872327	2029.214001	1836.59517	978.0824845	1427.155403	1015.971414	0.749139571	3.466746804	2.9756039
B7LHY3	TY-2482_chromosome	+	2687833	2688339	2713.940872	2563.503098	2667.341524	3694.138093	3626.555182	3458.87983	-0.436649743	0.665633282	0.5209682
B7LHY8	TY-2482_chromosome	+	2688357	2689301	3237.437914	3127.251816	3072.636186	6341.416101	5523.928576	6543.710107	-0.959749027	2.018369123	1.6874031
B7LHZ0	TY-2482_chromosome	+	2689350	2690636	1373.044231	1324.382501	1360.071641	4202.480516	3282.406777	4635.838876	-1.555538316	4.87196305	4.2579404
B7LHY9	TY-2482_chromosome	+	2690661	2692034	1016.298243	999.7299837	1024.026555	2285.906099	2184.960598	2696.677199	-1.204312547	8.590025069	7.7323317
B7LHZ2	TY-2482_chromosome	+	2692167	2692574	1434.225187	1570.832604	1526.46612	904.1754325	1856.906581	967.5797204	0.282557554	0.596007237	0.4633885
B7LHZ3	TY-2482_chromosome	-	2692577	2692792	183.3382856	175.0504268	156.877934	201.3479262	300.5585	158.5726794	-0.396366946	0.904861691	0.7226373
B7LHZ4	TY-2482_chromosome	-	2692851	2693273	171.8527206	190.3085429	189.5460523	346.4675603	303.9484465	262.1851537	-0.780864466	3.401991485	2.9184475
B7LHZ1	TY-2482_chromosome	-	2693287	2693652	194.9733107	245.6430451	207.8482945	333.7842245	333.1209512	270.0720162	-0.621257804	2.00145045	1.673127
B7LHZ6	TY-2482_chromosome	-	2693762	2694142	30493.35781	25182.43191	26772.41886	29145.75928	24782.46468	25733.53747	0.060596056	0.043639196	0.0300105

B7LHZ7	TY-2482_chromosome	-	2694186	2695172	113836.1346	101385.0903	110206.4225	119511.2528	94390.44249	110462.9355	0.017482613	0.003823584	0.0018207
B7LHZ8	TY-2482_chromosome	-	2695201	2695818	65347.65636	62871.05486	66604.54099	86931.18185	64143.0331	78472.43407	-0.241980475	0.236560201	0.1752743
B7LHZ9	TY-2482_chromosome	-	2695855	2696241	39788.00683	38145.91232	41206.66216	50722.5174	38702.54706	47915.90498	-0.19830573	0.203531597	0.1503523
B7LHZ5	TY-2482_chromosome	-	2696261	2696614	41950.71159	42483.13252	43835.02007	51639.98004	40577.27517	46931.922	-0.131437144	0.107858823	0.0793477
B7LI01	TY-2482_chromosome	-	2696912	2698240	128112.2303	127717.047	135665.1497	15659.78663	116313.5588	134087.5828	-0.115675668	0.076696626	0.0557404
B7LI02	TY-2482_chromosome	-	2698251	2698682	65722.26612	64555.71171	70896.16276	85834.72455	55154.41575	69548.71418	-0.0865325	0.056154574	0.0397678
A8AQJ7	TY-2482_chromosome	+	2698839	2699387	63717.33605	62263.14555	66710.21756	91035.95729	57357.63463	76956.84878	-0.244348226	0.221422587	0.1638111
Q1R625	TY-2482_chromosome	+	2699441	2700061	68198.35283	66863.71513	74481.26563	81112.65213	53948.58504	75522.68451	-0.001096486	0.00578795	0.0034025
B7L4J6	TY-2482_chromosome	-	2700725	2701027	38355.86221	37491.59974	40752.45345	48229.63735	33841.92054	46610.7024	-0.133524868	0.132917717	0.0972348
B7L4J7	TY-2482_chromosome	-	2701045	2701581	67600.13549	65493.21263	69522.79036	89702.52476	65639.14588	84222.90516	-0.24094993	0.24197508	0.1796661
Q1R618	TY-2482_chromosome	+	2701792	2702343	63383.0505	61642.44608	66789.46374	79569.211	62308.39336	72758.74275	-0.161324085	0.15320549	0.1121172
B7L4K0	TY-2482_chromosome	-	2702460	2702711	32708.99095	32079.39937	31945.40794	22564.21484	17509.30123	18814.74787	0.684821463	1.074678086	0.8677323
B7L4K2	TY-2482_chromosome	-	2702905	2703312	58196.83003	55092.2486	59455.53865	42584.59623	27056.54814	38643.38428	0.672365226	0.933649525	0.7472065
B7L4K3	TY-2482_chromosome	-	2703328	2704026	81783.66969	78212.63495	82872.72223	67505.40229	42147.92844	60531.27841	0.504722416	0.627915372	0.4897366
A8AQL1	TY-2482_chromosome	+	2704026	2704430	45198.5642	44497.87105	49278.1123	46406.07915	28874.81967	42863.82631	0.236458562	0.234163389	0.1737286
A7MPI1	TY-2482_chromosome	+	2704539	2705576	88992.69307	94699.89466	99041.9559	89505.65125	56137.23428	83987.28991	0.285642606	0.310478403	0.2327105
B7L4K8	TY-2482_chromosome	-	2705827	2706429	46967.10244	51881.8286	52803.70854	65659.35039	39561.54441	60120.73928	-0.153612489	0.112012515	0.0820132
Q1R603	TY-2482_chromosome	+	2706359	2707057	53916.75505	59835.98454	61642.96243	76509.10115	48268.93901	68711.77624	-0.171297583	0.129473782	0.0944102
B7L4L0	TY-2482_chromosome	-	2707105	2707413	24619.36822	27468.56766	30002.65493	35355.86391	24636.74873	33742.69267	-0.197576322	0.188757127	0.1392193
B7L4L2	TY-2482_chromosome	+	2707792	2708256	245.5610067	221.324975	180.4390551	311.0222117	434.3044868	272.8527843	-0.689239784	2.492178765	2.1090651
B7L4L3	TY-2482_chromosome	-	2708259	2708732	1146.494991	1097.538787	1075.412348	1327.607994	1962.345151	1086.069837	-0.417868669	1.094367921	0.8840376
B7L4L4	TY-2482_chromosome	-	2708808	2708999	115.8535798	135.0086425	106.0021478	30.43942775	29.1563126	20.14198555	2.047038836	18.37300998	17.130305
C6UVB2	TY-2482_chromosome	-	2709185	2710366	121561.2399	113764.2185	123087.6476	136277.4186	102353.3541	136034.3514	-0.04516776	0.054568178	0.0385627
B7L4L1	TY-2482_chromosome	-	2710440	2712551	15642.179613	153142.9926	162635.7249	154974.4866	110334.4894	150348.2525	0.188877837	0.173260264	0.1279677
C4ZUJ6	TY-2482_chromosome	-	2712582	2713118	33217.42433	33259.44338	36235.81647	35062.16942	26599.75618	35101.69919	0.099679553	0.077257256	0.0559019
A7MKJ1	TY-2482_chromosome	+	2713131	2713589	30305.34521	31435.24954	31713.08646	29236.2924	24526.71096	28460.61576	0.175772982	0.18391875	0.1358715
B7L4L8	TY-2482_chromosome	-	2713718	2714002	290.886242	303.5377105	279.8020991	382.7037045	381.2651611	443.1164997	-0.462478758	1.683563146	1.3967613
B7L4L9	TY-2482_chromosome	-	2714013	2714369	337.2600012	317.6655792	353.3416526	381.2568301	430.4626825	453.710521	-0.273361506	0.379739499	0.771494
B7L4M1	TY-2482_chromosome	-	2714372	2714755	479.1981182	557.9655155	508.3167401	636.3106635	642.4889107	648.5989463	-0.351497022	0.931435394	0.7451386
B7L4M2	TY-2482_chromosome	-	2714758	2715477	1005.092388	913.0838435	1071.092786	1505.055988	1529.766931	1690.389382	-0.601574496	2.866275396	2.4412135
B7L4M3	TY-2482_chromosome	-	2715647	2716456	4910.82878	5738.277281	5658.966992	11153.82032	11863.4802	10242.2949	-1.060580829	2.076309438	1.7385622
B7L4M4	TY-2482_chromosome	+	2716677	2716892	219.1187143	228.6917375	203.153176	179.0876248	254.147016	138.8135027	0.13237399	0.37974366	0.2882475
B7L4M0	TY-2482_chromosome	-	2716947	2717534	7785.642497	8075.37255	8473.559032	10813.56562	11746.08118	10461.93092	-0.43897403	0.587307311	0.4561068
B7L4M6	TY-2482_chromosome	-	2717632	2717829	261.6298695	265.8170481	293.9837633	278.2819951	308.5398192	292.1005263	-0.071669075	0.200792724	0.1482582
B7L4M7	TY-2482_chromosome	-	2717842	2719644	447.6744168	537.7946346	549.5041613	414.8176254	452.2975094	473.487968	0.201040035	0.470640367	0.3600718
B7L4M8	TY-2482_chromosome	-	2719647	2720198	224.8824435	274.4388211	248.8799849	138.6693816	193.9202356	187.9462961	0.528323017	1.851124593	1.5431602
B7L4M9	TY-2482_chromosome	+	2720326	2722236	1058.275504	961.5511963	1009.469173	1266.856109	968.1237745	1490.057239	-0.253127529	0.771128356	0.6109197
B7L4M5	TY-2482_chromosome	+	2722239	2723258	553.3875134	548.8429228	551.9308051	468.4752034	517.7741715	649.4137973	0.071419849	0.027593501	0.018361
B7L4N1	TY-2482_chromosome	+	2723255	2723470	299.9184415	310.978284	266.4633638	149.994525	186.606271	185.3614923	0.748910977	3.584020365	3.0812239
B7L4N2	TY-2482_chromosome	+	2723527	2724393	864.6810797	773.1971872	738.5796336	672.4224752	614.2035618	756.2025732	0.241035409	0.55316487	0.4278453
B7L4N3	TY-2482_chromosome	-	2724454	2724855	849.277512	1016.791136	1017.567399	746.9966766	993.9104688	788.2531016	0.180590874	0.461059831	0.3523094
B7L4N4	TY-2482_chromosome	+	2724935	2725147	1659.282967	1843.955163	1848.736961	939.9379336	1292.386436	1132.743757	0.688890658	2.825496695	2.4049496
B7L4N0	TY-2482_chromosome	+	2725157	2725786	5722.409567	5464.242678	6242.054902	5248.314875	5918.095569	5776.828108	0.087535508	0.038913752	0.0265085
B7L4N6	TY-2482_chromosome	+	2725828	2727927	1526.434831	1460.516771	1361.860346	1235.588591	1388.725005	1575.784039	0.081932774	0.092286507	0.067821
B7L4N7	TY-2482_chromosome	-	2728000	2729217	267.2270778	210.1531135	231.6533901	206.6099063	210.1655811	260.1171023	0.146395057	0.132370992	0.0967914
B7L4N8	TY-2482_chromosome	-	2729306	2729866	223.4407501	276.3927528	222.9336376	175.8650109	185.6528321	188.0918415	0.338248985	1.245133756	1.0135987
B7L4N5	TY-2482_chromosome	-	2729901	2730500	739.4073421	819.0845931	870.3825692	418.3347357	396.743419	427.5159379	0.970544186	5.708420482	5.0353986
B7L4P1	TY-2482_chromosome	-	2730765	2731334	834.6092162	743.1809527	876.9730627	1269.691929	1701.006793	1426.225733	-0.777217655	4.108007072	3.5589144
B7L4N9	TY-2482_chromosome	+	2731605	2732783	132.3086302	153.0803143	121.189896	310.2391457	292.8998028	467.5317981	-1.388757421	8.905881368	8.031153
B7L4P3	TY-2482_chromosome	+	2733048	2735588	48503.18896	52064.93825	54087.21903	1181.999884	579.4681045	775.1459428	5.848777494	28.40924315	26.937418
B7L4P4	TY-2482_chromosome	+	2735588	2735911	4437.542176	4595.634019	5008.722975	113.6948485	60.77456711	89.45466801	5.700070071	37.56050757	35.878886
B7L4P5	TY-2482_chromosome	+	2736041	2736844	1899.253483	2268.561851	2236.989777	169.4373517	100.8374184	136.8332268	3.91157589	55.70493351	53.708346
B7L4P2	TY-2482_chromosome	+	2736866	2738236	1226.960256	1503.067336	1379.884838	723.1299258	638.7839552	734.002397	0.931608448	5.546882714	4.8871026
B7L4P9	TY-2482_chromosome	+	2740306	2741325	55.5289939	33.75012864	55.72538578	45.75430237	34.5307911	31.87340451	0.436953451	0.83336626	0.662734
B7L4Q0	TY-2482_chromosome	+	2741378	2742205	39.50401961	45.81487359	42.90793658	57.30472187	39.89662763	61.51820315	-0.326025582	0.663936927	0.5195362
B7L4P6	TY-2482_chromosome	+	2742205	2742987	43.2483999	57.16934377	40.64380102	57.95467832	42.64831239	60.28516864	-0.277822109	0.362566281	0.2741137
B5YTT2	TY-2482_chromosome	+	2743024	2743818	253.7913262	177.6886328	233.1684875	166.0722672	152.8131542	189.1772092	0.489281187	1.18504109	0.9622385

B7L4Q3	TY-2482_chromosome	-	2743976	2745058	54.53622865	56.64610267	56.10928261	51.20917465	45.43297307	56.37963717	0.135527588	0.218983797	0.1618067
B7L4Q4	TY-2482_chromosome	-	2745073	2746374	35.0348961	48.91721086	30.64376456	62.80249084	41.73461515	53.92830666	-0.612114337	1.162317456	0.9445099
B7L4Q9	TY-2482_chromosome	-	2750101	2750460	29.06806997	39.13850698	26.0954592	50.94358447	37.22922655	40.91049684	-0.586352448	1.075726387	0.8684772
B7L4Q6	TY-2482_chromosome	-	2750480	2751382	69.28764188	91.3469388	81.21568508	170.6990664	126.4276742	118.7745546	-0.891091998	3.510418676	3.0154259
B7L4R1	TY-2482_chromosome	-	2751654	2752655	2630.708306	2987.426361	2940.088856	3740.521904	3566.409214	4554.257893	-0.456456196	0.715674058	0.563104
B7L4R0	TY-2482_chromosome	-	2752651	2753406	1495.584685	1543.080347	1602.467495	2168.470094	1736.219325	2622.782563	-0.457648265	1.240990334	1.0097795
B7L4R3	TY-2482_chromosome	-	2753402	2754076	1400.600699	1521.809777	1442.560219	2106.7596	1752.627217	2436.093956	-0.525802873	1.931542845	1.6114498
B7L4R4	TY-2482_chromosome	-	2754097	2754930	1233.961441	1220.915958	1167.170059	1444.681139	1388.679653	1632.436926	-0.29012636	0.851087243	0.677463
B7L4R2	TY-2482_chromosome	-	2755040	2756323	3727.346113	3308.253091	3490.617783	5690.361717	5350.105801	6867.112365	-0.712625639	1.39313661	1.1428783
B7L4R5	TY-2482_chromosome	-	2756418	2757503	2517.974946	2342.361467	2616.630296	3531.842721	3282.493919	3780.907644	-0.463709282	0.801908186	0.6374126
C3SQ92	TY-2482_chromosome	-	2757563	2758282	1965.395829	1806.328967	1877.009753	2377.871612	2551.804965	2462.858886	-0.365118782	0.655927811	0.5129853
B7L4R8	TY-2482_chromosome	-	2758485	2759720	53.71899158	54.66856224	62.92738292	58.66168476	37.13636187	64.06286378	0.132312891	0.160248616	0.1173785
B7L4S2	TY-2482_chromosome	-	2760992	2761768	60.69676624	58.952377	49.21406103	62.74596311	50.92212295	47.62336794	-0.001356673	0.07131043	0.051252
B7L4S0	TY-2482_chromosome	+	2761888	2764437	757.0327597	627.1110303	660.7768112	1163.436096	1211.233172	1448.138972	-0.836206625	5.196118046	4.5575479
B7L4S4	TY-2482_chromosome	-	2764611	2765168	678.1216933	799.8845053	708.9864851	691.1984451	840.0376952	788.0272391	-0.1062343	0.174082176	0.1282612
B7L4S5	TY-2482_chromosome	+	2765488	2767620	783.0047324	795.6017007	730.0441067	988.9922938	1011.074899	974.9426597	-0.386017657	0.1278644299	1.0254445
D3GZL7	TY-2482_chromosome	+	2767643	2768353	623.8874861	531.6034699	549.851862	790.5095355	888.2511324	830.199079	-0.52395501	2.255804912	1.8981402
B7L4S3	TY-2482_chromosome	+	2768367	2768765	493.78258	400.6941404	442.9678302	715.2325989	577.7500558	791.6438342	-0.58461769	2.534875977	2.1469072
B5YTV0	TY-2482_chromosome	+	2768787	2769668	938.0154612	730.8322032	859.6533041	1512.280116	1516.106001	1719.296004	-0.832287061	4.919986557	4.304396
B7L4S9	TY-2482_chromosome	-	2769809	2771530	318.6085136	272.1581111	340.9268989	234.6685836	191.9341438	220.989933	0.570040563	2.02231659	1.6905342
B7L4T1	TY-2482_chromosome	+	2771909	2773528	9661.420269	9080.065452	8874.082366	7882.145314	5665.79027	8971.966261	0.316443389	0.342983304	0.2583633
B7L4T2	TY-2482_chromosome	+	2773648	2773962	176.4733633	177.7533791	174.2452941	83.30700042	99.29491667	74.00035958	1.023539572	6.709188981	5.9710094
B7L4T3	TY-2482_chromosome	+	2774024	2774317	334.4443565	331.4357667	259.6734634	120.0143413	157.6068186	101.781902	1.22485118	8.177904574	7.3413806
B7L4T4	TY-2482_chromosome	-	2774353	2775702	1383.601304	1244.93341	1305.903125	1169.097224	927.2104829	1239.019299	0.266302155	0.602513523	0.4688604
B7L4S7	TY-2482_chromosome	-	2775702	2776418	2180.663263	2053.920805	2348.636039	1731.109057	1475.986284	1971.73612	0.398342869	0.725494248	0.5717056
Q1R5M9	TY-2482_chromosome	-	2776511	2776693	191.3135868	225.3966546	192.6263973	129.516247	154.8959768	79.72721846	0.636203237	2.888764387	2.4611431
B7L4T6	TY-2482_chromosome	+	2776646	2777119	366.5402647	320.500548	352.5837258	252.4490923	258.5442476	174.2661095	0.582617905	2.289315832	1.9294775
B7L4T7	TY-2482_chromosome	+	2777219	2779537	1024.5717	971.5953396	1003.53884	1807.855953	1514.178793	2255.704107	-0.846623127	4.505382236	3.9244934
B7L4T5	TY-2482_chromosome	+	2779978	2780202	2910.561824	2982.626662	2864.015012	45.05824317	43.60011399	62.65980862	5.889806738	105.0158558	102.05548
B7L4T8	TY-2482_chromosome	+	2780222	2782588	11549.57661	11514.23462	12017.64902	549.3245324	393.8966224	539.1827318	4.566232615	24.04906119	22.659228
B7L4U0	TY-2482_chromosome	+	2782591	2782824	778.4379699	808.6853506	794.2362224	47.94725837	54.68882942	38.52856974	4.040536471	61.72009262	59.604815
B7L4U1	TY-2482_chromosome	+	2783030	2783905	125.6062012	128.7027333	124.7246733	61.71151046	64.63754594	58.03206914	1.022351427	6.776233731	6.0343936
B7L4T9	TY-2482_chromosome	-	2783940	2784707	452.998773	512.206461	514.4204068	543.0414163	577.001372	532.9375456	-0.174631091	0.374724607	0.2842844
B5YTW4	TY-2482_chromosome	+	2784682	2785425	452.4137015	430.954286	478.1349154	386.4851253	454.1477086	455.0853322	0.122764351	0.141175175	0.1034206
B7L4U4	TY-2482_chromosome	+	2785487	2786059	993.9316019	993.9341931	895.71143097	2945.06021	3287.092005	3712.356102	-1.767789305	8.428368323	7.565577
B7L4U2	TY-2482_chromosome	+	2786423	2787736	403.7662185	462.1913982	374.0616094	725.8768545	591.4331945	707.6963059	-0.77139057	3.210137608	2.7466916
B7L4U5	TY-2482_chromosome	-	2787787	2789868	4643.153025	5241.271521	5139.978389	16432.14856	9103.935962	12754.91427	-1.418469566	3.05193378	2.6063714
B7L4U7	TY-2482_chromosome	-	2789881	2792271	12575.59137	13100.46081	12884.46208	37567.4869	21514.31708	29927.60889	-1.26089251	2.338504235	1.9738452
B7L4U8	TY-2482_chromosome	+	2792883	2795585	10675.40253	10877.39259	10149.64572	13144.76244	10109.65984	11378.81865	-0.17001749	0.126440595	0.0928189
B7L4U9	TY-2482_chromosome	-	2795634	2796647	378.5099218	343.2312434	350.500282	220.8057432	184.653369	218.2914452	0.792312726	3.965963008	3.4275202
B7L4U6	TY-2482_chromosome	-	2796654	2797877	62.02298636	62.10185974	64.74099867	85.46523896	72.72734602	86.71606353	-0.366937593	1.068723205	0.8620012
B7L4V1	TY-2482_chromosome	+	2798066	2799661	135.7319756	87.58219616	113.5397231	125.6991816	108.2586204	105.4373246	0.046816719	0	0
B7L4V2	TY-2482_chromosome	-	2799649	2800404	329.7325177	312.7112543	366.6576253	468.6172158	501.4113334	574.6346073	-0.545782168	2.489364271	2.1067102
B7L4V0	TY-2482_chromosome	-	2800424	2801251	397.0997103	396.7104004	387.4845915	552.6481055	634.3240484	655.0212732	-0.617530533	2.813408449	2.3946625
B7L4V4	TY-2482_chromosome	-	2801299	2801622	97.26456607	102.1970025	83.5464231	190.5845297	278.6157032	230.2892767	-1.31570694	8.775693191	7.9094392
B7L4V5	TY-2482_chromosome	+	2801812	2803314	353.7787634	325.3131295	346.6323763	25611.44924	28030.51021	27897.56604	-6.277201776	35.39220028	33.758161
B7L4V6	TY-2482_chromosome	-	2803372	2803974	17.14480064	25.63643305	12.76683108	334.875174	351.3020272	327.6937653	-4.338324392	55.76872621	55.762593
B7L4V3	TY-2482_chromosome	-	2803980	2804744	14.93221842	19.18835335	12.26528224	30.02334085	32.75640802	35.39875908	-1.14776076	3.329482607	2.8513238
B7L4V9	TY-2482_chromosome	-	2805476	2806990	17.95108971	19.9519517	15.65078748	33.0868201	50.18260955	38.27969135	-1.204177611	4.15178563	3.5989708
B7L4V7	TY-2482_chromosome	-	2807109	2809553	1930.879066	1967.920902	1947.662769	5092.887192	4599.320106	5549.032508	-1.373562241	3.780791823	3.255942
B7L4W1	TY-2482_chromosome	-	2809575	2811005	1654.272107	1528.200025	1618.900985	2068.970567	1951.015882	3017.22958	-0.467931306	1.377398421	1.1295041
B7L4W0	TY-2482_chromosome	-	2811008	2812300	1219.011246	1095.897158	1251.271064	1342.535477	1091.827862	2319.42393	-0.280933991	1.045978387	0.8417823
B7L4W3	TY-2482_chromosome	-	2812321	2814291	1512.234394	1416.961677	1363.218958	1990.200811	1986.553559	2693.807869	-0.585429659	1.987180625	1.660879
B7L4W4	TY-2482_chromosome	-	2814291	2816474	2215.177845	2107.224685	2034.698925	2777.761782	2335.941195	3696.167266	-0.423723615	0.7249712	0.5713181
B7L4W2	TY-2482_chromosome	-	2816750	2817850	2562.080076	2473.354816	2633.077229	3303.135465	3002.144119	4196.275485	-0.39829633	0.681822983	0.5349285
B7L4W6	TY-2482_chromosome	+	2818043	2818633	105.5982744	58.19260316	121.4684365	145.7137918	124.5593181	175.8558223	-0.452995462	2.063449214	1.7277681
B7L4W7	TY-2482_chromosome	-	2818696	2820033	161.8345689	139.2567873	117.7496094	122.02749	120.084123	137.9476539	0.147693196	0.300263692	0.2246834

Q8FCR0	TY-2482_chromosome	+	2820091	2820720	157.1044344	130.5015422	163.9408453	83.80112573	97.40498219	95.9749686	0.78311737	3.348490282	2.8684091
B7L4W9	TY-2482_chromosome	-	2820706	2821698	1355.132676	1227.09813	1356.851895	514.4642449	558.7196737	708.6095727	1.226479251	7.97320914	7.1564727
B7L4X0	TY-2482_chromosome	-	2821925	2822617	772.5597488	744.6503706	734.7515884	917.4123037	863.5853962	976.0430608	-0.28100517	0.89206826	0.7128837
B7L4X1	TY-2482_chromosome	+	2822743	2823777	2272.792341	2040.837142	2122.595041	2845.619241	2571.736846	2965.252844	-0.356119007	0.561696177	0.434802
B7L4X2	TY-2482_chromosome	+	2824109	2824594	146.2644448	182.2778553	187.7335889	30.42712392	27.29995121	22.64355013	2.625154563	30.86717946	29.353962
B7L4X7	TY-2482_chromosome	-	2827278	2829017	655.7445614	675.1734093	721.7686486	1058.408651	1028.277281	1328.332083	-0.687542698	3.697166318	3.1802101
B7L4X3	TY-2482_chromosome	+	2829137	2829574	634.955143	661.1700745	557.5941344	303.6054132	266.5989586	273.7444656	1.080124641	7.539248053	6.7549637
B7L5Q2	TY-2482_chromosome	-	2829567	2830307	421.7530723	422.5852206	425.1765567	378.5147088	302.9477425	357.7877389	0.277937014	0.805223275	0.6401714
B7L5Q3	TY-2482_chromosome	-	2830307	2831374	224.4218084	206.6720625	213.2055871	168.381645	120.8888621	168.1682036	0.504870181	1.780293058	1.4802882
B7L5Q4	TY-2482_chromosome	-	2831379	2832221	30.5974415	26.99504282	35.90204653	38.11484364	27.27926951	17.68916155	0.131787916	0.239077661	0.1772078
B7L5Q6	TY-2482_chromosome	-	2833206	2834519	56.07555391	61.04325101	51.28670216	80.23962248	68.18339854	78.87281447	-0.475738799	1.289919423	1.0518486
B7L5Q7	TY-2482_chromosome	-	2834918	2835628	43.99099255	50.9350501	47.52272107	37.03827003	27.2137332	32.893782	0.504729625	1.46320057	1.202836
B7L5Q8	TY-2482_chromosome	-	2835633	2836397	37.71653461	60.14271497	55.66096534	38.24573985	32.71832313	34.27741821	0.466864048	1.358481677	1.1129386
B7L5Q9	TY-2482_chromosome	-	2836397	2837671	49.91282183	65.37858019	53.35762225	47.33785015	39.96515964	49.83980812	0.237514045	0.613856485	0.478907
E9VUM2	TY-2482_chromosome	-	2838590	2839718	42.54969475	50.36432931	40.74291718	43.13801168	33.64111908	28.00598655	0.237691855	0.673583465	0.5277218
B7L5R2	TY-2482_chromosome	+	2840175	2840555	408.3651659	419.2253296	361.535542	309.8985389	386.9400668	247.8945005	0.273951043	0.87506983	0.7173046
B7L5R3	TY-2482_chromosome	-	2840760	2841860	104.4884521	134.7638449	110.7748472	112.4065072	99.13945418	109.1733429	0.053712357	0.230507179	0.1709355
B7L5R4	TY-2482_chromosome	-	2842134	2842985	5326.791128	5463.370342	5522.882717	5146.62587	5510.380416	5350.6244	0.03332565	0.025950562	0.017495
B7L5R5	TY-2482_chromosome	-	2843233	2844288	930.2437814	1019.179399	904.3517483	1199.65259	1196.667446	1406.115847	-0.422649454	1.341570982	1.0985329
B7L5R6	TY-2482_chromosome	-	2844284	2844949	739.5751386	719.2484212	776.5304994	1297.604237	1250.3609829	1422.000644	-0.79660661	4.327673099	3.7610481
B7L5R0	TY-2482_chromosome	-	2844955	2846445	1172.34067	1413.37585	1399.167983	2361.016487	1965.600884	2492.847957	-0.791001835	3.666101002	3.1541225
B7L5R8	TY-2482_chromosome	+	2846595	2847188	498.737801	515.1805586	518.2990703	358.2731401	400.4234487	430.0039461	0.393000025	1.172007614	0.9523104
B7L5R7	TY-2482_chromosome	-	2847456	2847812	258.0533723	235.2501537	254.8810074	166.8990122	265.9345958	193.6029811	0.305821495	0.633808042	0.4946838
B7L5S0	TY-2482_chromosome	+	2847953	2848576	1480.958304	1201.712452	1295.283708	610.3879354	718.9633159	747.0791296	1.007676399	5.153246311	4.5187966
B7L5S2	TY-2482_chromosome	+	2848653	2850848	2048.4154	1809.352445	2005.181236	1419.403857	1082.823095	1431.162698	0.607005414	2.22142087	1.8691432
A1AH06	TY-2482_chromosome	+	2850914	2851213	195.2354331	173.6726797	196.1703588	85.67241639	112.9383982	97.41010365	0.986934102	5.462811813	4.8069267
B7L5S4	TY-2482_chromosome	+	2851419	2852081	120.5529601	124.8825899	88.60405972	58.46028201	53.64563122	60.43788959	0.891384919	4.726805073	4.1236017
C8TJR1	TY-2482_chromosome	+	2852115	2852711	3297.938799	3297.239642	3343.428196	4103.6589629	5278.455279	5278.788635	-0.411032596	0.568034537	0.4396206
B7L5S6	TY-2482_chromosome	-	2852721	2853935	893.7230666	880.7897241	815.8631747	358.3777997	360.33335	423.3534673	1.195007171	8.074829129	7.2467132
B7L5S3	TY-2482_chromosome	+	2854067	2855113	304.1447705	389.6303976	321.3708117	232.2640946	270.3413442	244.7753144	0.383200817	1.443654862	1.1866756
B7L5S7	TY-2482_chromosome	+	2855171	2855755	236.8177626	287.6106522	276.0514716	274.2047524	349.5651303	289.587377	-0.209184921	0.44354867	0.3389344
B7L5S8	TY-2482_chromosome	+	2855869	2857440	969.4334213	804.7610637	831.0817412	49.02456744	38.05058788	75.46356458	4.093854802	53.79023992	51.838464
B7L5T0	TY-2482_chromosome	+	2857443	2858384	524.4482136	431.4340331	462.7324619	40.10241605	34.51526915	41.97465588	3.64134235	52.15683261	50.229881
B7L5T1	TY-2482_chromosome	+	2858384	2859214	406.2077474	351.380811	378.9446633	37.32631936	37.28375284	41.97251561	3.327973735	45.43136504	43.635342
B7L5T2	TY-2482_chromosome	+	2859217	2859968	436.1929366	369.3110196	378.830025	45.50346467	40.01634987	38.31851013	3.253948477	44.15300558	42.362892
B7L5S9	TY-2482_chromosome	+	2859978	2860781	273.1214485	230.4135921	249.5197502	69.22602978	57.28281319	58.03604659	2.032926956	21.39717041	20.080247
B7L5T4	TY-2482_chromosome	+	2860790	2861188	202.6054256	218.3627589	199.267355	86.32819308	108.3499465	103.8553523	1.056762135	6.86477391	6.1165859
B7L5T5	TY-2482_chromosome	-	2861314	2861670	301.4246733	296.1776651	279.1265983	116.6097671	166.7407135	104.4072715	1.157949395	7.237994744	6.4690701
C6UWI3	TY-2482_chromosome	-	2861670	2861942	246.8258913	247.0383153	226.2761036	86.89028896	129.3857935	97.53701232	1.200880464	7.914213866	7.0999663
B7L5T6	TY-2482_chromosome	-	2862004	2863125	510.3815035	420.4326684	374.5961209	122.4178346	133.7299439	170.5507867	1.667740964	12.46509423	11.417472
B7L5T7	TY-2482_chromosome	-	2863128	2865860	721.1663384	646.5656418	558.1614312	240.4747657	169.9932149	277.069218	1.493109262	10.21279582	9.2760841
B7L5T3	TY-2482_chromosome	-	2865860	2866924	571.3362166	541.6856458	593.6480835	189.1898295	160.0709466	202.3744894	1.660984773	14.05418089	12.946285
B7L5U4	TY-2482_chromosome	+	2871182	2872231	46.2470668	44.75236323	55.73473246	94.177010076	72.70710076	86.79890753	-0.763587732	3.233829306	2.7670511
B7L5U5	TY-2482_chromosome	-	2872897	2873361	65.9262976	55.17761761	61.38301353	42.51825036	45.49579055	48.5693591	0.471328825	1.182404775	0.9603339
B7L5U2	TY-2482_chromosome	-	2873549	2874946	259.4254582	317.060142	225.3532036	248.2077681	255.7377526	242.1670735	0.009440027	0.19288647	0.1422808
B7L5U7	TY-2482_chromosome	-	2874946	2875629	216.7187785	261.2605747	219.6845258	236.5206806	211.9889276	230.214576	-0.021397992	0.058327176	0.0413471
B7L5U8	TY-2482_chromosome	-	2875681	2876607	265.187511	346.1772379	309.6520931	285.6194293	296.6906188	282.9329363	0.03636043	0.171065234	0.1264059
B7L5U9	TY-2482_chromosome	-	2876615	2876992	278.0164894	308.9046914	317.0340058	246.0592673	287.6375764	256.6375025	0.195317125	0.472902275	0.3619461
B7L5V0	TY-2482_chromosome	-	2877035	2877931	189.011138	211.0841576	220.0106862	160.3250494	150.1333515	151.3641245	0.411826875	1.508904783	1.2426076
B7L5V1	TY-2482_chromosome	-	2877931	2879751	448.9129054	382.0963941	384.7436694	271.0941237	292.1463993	281.5682602	0.55114838	2.049559022	1.7147016
B7L5V2	TY-2482_chromosome	+	2880718	2881452	128.0383635	106.7562909	116.1468756	183.7338026	214.8513106	177.8197562	-0.6845371	3.400980907	2.9177265
A4Y217	TY-2482_chromosome	-	2881492	2881686	69.23419115	82.60468272	96.79340029	90.49396687	109.3060474	83.17775894	-0.182405611	0.403131089	0.3058403
B7L5V4	TY-2482_chromosome	-	2881730	2884174	500.2155959	542.9556031	507.6421367	697.5308712	568.6610997	746.9862579	-0.389765205	1.157699483	0.940206
B7L5V5	TY-2482_chromosome	-	2884304	2884747	219.1592513	211.420799	207.2159268	246.8039821	284.0119549	235.7183431	-0.269720504	0.731122223	0.5757034
B7L5V6	TY-2482_chromosome	-	2884831	2887974	672.3854394	611.2487608	644.3674625	757.3050042	605.9639917	814.0582961	-0.145352118	0.403350082	0.3058489
B7L5V7	TY-2482_chromosome	-	2887988	2889277	252.0725289	222.713084	254.9526538	335.1131574	285.6862897	315.7447521	-0.333476349	1.149315753	0.9319793
B7L5V3	TY-2482_chromosome	-	2889394	2889744	75.21290013	90.26888258	104.7086822	124.7065442	129.2333782	126.3336912	-0.479734903	1.768354646	1.470548

B7L5V8	TY-2482_chromosome	-	2889775	2891460	335.6144627	393.0552959	354.4697089	272.5600567	281.2349523	250.1634524	0.379128692	1.452768678	1.1937883
B7L5W2	TY-2482_chromosome	+	2892020	2893498	654.240912	718.1454292	684.6318738	388.1150793	367.6184888	401.182139	0.814675756	4.447116827	3.8732607
B7L5W1	TY-2482_chromosome	+	2893629	2894174	156.3137301	145.0323917	158.5161556	80.78793085	83.75166024	73.8583739	0.95905073	5.846328086	5.1624143
B7L5W0	TY-2482_chromosome	+	2894325	2894672	4347.775773	4852.349999	4734.573236	4353.598874	5643.534846	2279.768397	0.091817705	0.191053946	2.1049825
B7L5W4	TY-2482_chromosome	-	2894847	2896730	280.4189305	275.9463966	284.5751344	199.81381	162.8020265	179.225061	0.589934205	2.464978685	2.0848436
Q19NI3	TY-2482_chromosome	-	2898827	2900389	72.55056171	78.88015663	63.76298053	62.11617556	59.21820048	36.14701682	0.335931174	1.100625916	0.8893679
B7L5W7	TY-2482_chromosome	-	2900424	2901869	73.72509468	85.43953007	104.1050887	102.8943558	81.99035609	27.46192929	0.186628614	0.501291679	0.3852689
B7L5X1	TY-2482_chromosome	-	2901872	2903992	176.950311	237.6270965	200.6336918	114.985923	91.13801751	15.79043088	1.219572122	4.48454611	3.9051049
B7L5X0	TY-2482_chromosome	-	2903982	2904821	304.9851315	371.6242212	292.8611083	40.53637749	52.89933592	37.14079542	2.811583503	35.49727667	33.85912
B7L5X3	TY-2482_chromosome	-	2904967	2906166	518.9368778	530.7198092	538.7741897	216.7036044	167.2855173	263.8798812	1.324445099	8.549343288	7.6941371
B7L5X2	TY-2482_chromosome	+	2906398	2907894	1747.817284	1738.026922	1448.183607	3366.801876	3825.895323	3652.144925	-1.155836681	2.84815199	2.4260987
B7L5X4	TY-2482_chromosome	-	2907971	2908303	901.022343	963.2446626	974.5663124	187.2997943	305.1135634	195.106007	2.051473595	17.96117474	16.72834
B7L5X5	TY-2482_chromosome	+	2908694	2909125	5104.895447	4364.649101	4768.861889	2755.133063	3373.5774	3695.22883	0.617190809	0.832311215	0.6623615
B7L5X7	TY-2482_chromosome	+	2909446	2910912	1408.774303	1529.909447	1566.176101	6847.322695	5232.672053	6462.200387	-2.058590163	7.099626899	6.3390064
B7L5X8	TY-2482_chromosome	-	2910967	2911716	391.1983976	386.0755027	344.3941829	669.8848974	579.6060482	724.6540218	-0.823880897	4.182195688	3.6266538
B7L5X6	TY-2482_chromosome	-	2911727	2913766	3364.730573	2803.734109	3001.345609	4511.05327	3598.190157	5279.071945	-0.48831065	0.856028468	0.6815519
B7L5Y0	TY-2482_chromosome	+	2913969	2914808	855.0690764	650.9502952	740.7208512	1001.906832	926.3137052	1333.423727	-0.437604449	2.028724322	1.6963287
B7L5Y1	TY-2482_chromosome	+	2914883	2916232	2057.346038	1914.544296	2029.576152	3800.590074	3050.365033	4021.55476	-0.831138334	1.780541416	1.4802882
B7L5Y4	TY-2482_chromosome	+	2917112	2917462	46.33262234	44.37872495	48.93633403	19.96672225	15.43149105	14.66198489	1.457094519	6.902157596	6.1529025
B7L5Y2	TY-2482_chromosome	+	2917519	2918805	213.1954137	210.9898645	191.2577399	98.4108138	90.0151416	115.4647168	1.02430934	6.377013212	5.659179
B7L5Y6	TY-2482_chromosome	+	2918821	2919243	269.9769352	267.9454912	261.3722612	92.06959989	122.8988136	129.951432	1.260270649	8.064264618	7.2387034
B7L5Y7	TY-2482_chromosome	-	2919383	2919676	172.0744326	196.1006859	128.144287	38.61561992	48.33366646	34.50585323	1.922775181	17.68574577	16.460969
Q0S2F7	TY-2482_chromosome	+	2922680	2923408	325.0622682	365.8721495	404.3464904	961.0068245	907.3307673	794.9354073	-1.303770828	9.069067147	8.1871483
B7L5Z1	TY-2482_chromosome	+	2923567	2924094	29.83027409	35.18790624	29.58255113	45.92707702	20.44334478	20.44334478	-0.285563046	0.236324322	0.1752399
B5YVF1	TY-2482_chromosome	-	2924142	2924798	16.99347098	28.32826574	17.59131111	102.206534	101.1143004	57.31949466	-2.251056563	11.3630566	10.370229
C8TJU6	TY-2482_chromosome	-	2924853	2925188	120.9149412	146.0841202	142.0405701	1604.36971	1595.483752	743.1024142	-3.392435715	31.71080428	30.184998
B7L5Z4	TY-2482_chromosome	-	2925295	2925624	281.0772504	269.0697939	329.7811934	2985.226496	3293.681108	1553.464546	-3.192618292	31.32076806	29.801302
B7L5Z3	TY-2482_chromosome	+	2925879	2926448	82.88544019	99.1738291	83.02506324	525.7617098	701.8159139	497.6798295	-2.757924426	29.77342064	28.275443
B7L5Z6	TY-2482_chromosome	+	2927250	2927774	74.536648	87.43806611	93.98616671	200.3544866	223.2588537	50.06799674	-1.023862479	2.083434057	1.7450651
D7Z0Y0	TY-2482_chromosome	-	2927730	2928056	29.71998659	41.90376514	31.53320018	68.22908155	94.88069987	44.16737687	-1.13509382	3.414428398	2.9288516
B7L5Z7	TY-2482_chromosome	+	2928116	2929270	59.92224662	67.64444038	43.0321961	124.8611812	165.4881852	233.8374008	-1.926315243	15.29840096	14.150939
B7L5Z5	TY-2482_chromosome	+	2929298	2932408	217.6608711	186.9886822	227.9716539	643.4917596	585.9819687	749.5529336	-1.569691557	13.61032106	12.520349
B7L5Z9	TY-2482_chromosome	-	2932777	2933502	277.349773	278.734041	307.8356678	115.1641649	164.8681423	126.4842407	1.122083901	6.522079438	5.797737
gadY	TY-2482_chromosome	+	2933748	2933852	138.1348939	178.4490391	145.7511237	52.62444316	62.0198321	34.80406582	1.512220127	12.26362184	11.225452
B7L600	TY-2482_chromosome	-	2934694	2934694	1523.129029	1837.947837	1673.659817	377.5038905	533.5773416	254.782372	2.026463565	16.98945474	15.783427
B7L5Z8	TY-2482_chromosome	-	2935067	2936464	167.7147325	140.0944418	145.1151073	843.2479433	527.6535019	685.4624357	-2.196892368	19.84731767	18.564549
B7L601	TY-2482_chromosome	-	2936678	2938072	190.3664023	277.9108892	211.7387352	46.15161466	51.07721847	28.23719395	2.280019303	23.43306361	22.059275
B7L603	TY-2482_chromosome	+	2938477	2940123	437.424295	475.7762574	425.694059	303.9323451	292.9767592	349.6922061	0.490658491	1.848814884	1.5412656
B7L604	TY-2482_chromosome	-	2940180	2940779	81.61433653	79.57679649	69.06024774	96.78647737	88.27394497	76.60606172	-0.239826022	0.435863966	0.3325795
B7L605	TY-2482_chromosome	+	2941227	2942195	92.77393848	87.93682452	88.40548715	39.87625474	44.6062974	44.68206887	1.080271992	5.785936099	5.1065938
B7L606	TY-2482_chromosome	+	2942247	2943257	923.6173449	894.0278419	881.9875463	383.169025	414.0318636	504.7785752	1.097626474	6.644063367	5.909897
B7L607	TY-2482_chromosome	+	2943671	2944990	118.8752703	118.6998938	120.8244139	93.79066008	94.61940284	103.8049281	0.312684667	0.864911757	0.6894053
Q8Z283	TY-2482_chromosome	-	2945230	2946387	220.4423107	256.7149786	237.6535816	311.1846331	286.5831026	361.4722751	-0.433108212	1.849682239	1.1996641
B7L602	TY-2482_chromosome	-	2946354	2947343	329.2284906	274.2758915	297.7086268	299.9088641	292.0526599	371.9228392	-0.028032278	0.18416383	0.1359614
B7L609	TY-2482_chromosome	-	2947401	2948165	157.0181644	166.8552287	149.7118414	217.8343777	249.4020005	228.977212	-0.573835882	2.245370578	1.889437
B5YVH2	TY-2482_chromosome	-	2948168	2948392	33.09616996	30.59258219	23.39367758	33.42559128	29.96243667	39.22256569	-0.24700433	0.399616706	0.3031585
B7L608	TY-2482_chromosome	+	2948397	2949323	410.5348183	437.2198342	389.3544162	362.0249288	295.6660077	359.0326712	0.249755491	0.771131512	0.6109197
B7L611	TY-2482_chromosome	-	2949425	2950918	554.7168396	633.0401407	612.0694592	2277.345786	2256.874375	2665.153911	-1.996100954	20.3626981	19.066964
B7L612	TY-2482_chromosome	-	2951142	2952425	1528.591927	1542.729995	1452.381056	588.6331804	611.4610492	872.858018	1.178545821	6.530874252	5.8045094
Q8Z288	TY-2482_chromosome	-	2952545	2954536	515.8948825	535.9891018	566.5990659	479.9622237	464.9862888	533.941717	0.153274228	0.288476641	0.2156058
B7L615	TY-2482_chromosome	-	2954681	2958151	2846.231513	2895.255279	2885.86856	2711.42539	2492.522555	3417.459886	0.036350102	0.000762636	0
B7L614	TY-2482_chromosome	-	2958136	2959239	885.3889406	957.4455468	853.5107379	1083.543104	975.4860838	1220.594817	-0.295697727	0.827684594	0.6585784
B7L617	TY-2482_chromosome	-	2959249	2961585	2087.263276	1940.295588	2051.357474	3996.142573	3473.558209	4539.837257	-0.943775095	2.192866853	1.8436495
B7L616	TY-2482_chromosome	-	2961599	2964214	1456.665181	1596.546419	1538.334302	1697.328846	1912.205771	2019.284164	-0.283220732	0.827433384	0.6584677
B7L619	TY-2482_chromosome	-	2964214	2964963	832.0379424	1001.570107	1053.32737	782.1643252	708.8592287	829.9808873	0.313497477	0.972874888	0.7796551
B7L620	TY-2482_chromosome	-	2964978	2965163	537.2337169	718.1031642	795.3823124	203.9824158	214.7389909	249.6784168	1.640458621	12.70613405	11.651014
B7L621	TY-2482_chromosome	+	2965436	2967005	2748.931033	3061.93971	2850.828885	1438.844257	1506.16074	1390.733463	0.966984242	2.810997513	2.3927

B7L618	TY-2482_chromosome	+	2967005	2967193	84.26630671	109.2912158	95.0298476	56.39699236	60.08090467	56.63688418	0.682496655	3.102059585	2.6498095
B7L623	TY-2482_chromosome	+	2967193	2968869	321.5381597	359.2977213	290.8562956	283.6320637	296.6912572	284.2348374	0.115480381	0.37993357	0.2883199
D8E601	TY-2482_chromosome	+	2969031	2969423	374.2126628	290.0241349	313.4717791	100.2845506	267.255261	77.37362312	1.167312181	3.644731591	3.1342969
D8E601	TY-2482_chromosome	+	2969514	2969906	608.9047974	544.0294561	529.9817201	160.6751438	407.3561248	144.346131	1.250045894	4.698604192	4.4098822
D8E601	TY-2482_chromosome	+	2969997	2970389	664.4844715	528.8399747	477.5801431	124.4497226	381.1305728	89.3708753	1.487832816	4.853287332	4.0288269
D8E601	TY-2482_chromosome	+	2970485	2970811	313.5067613	286.153047	265.8284402	112.8944577	266.2880275	82.61344515	0.885473674	2.691651544	2.2885424
B7L627	TY-2482_chromosome	+	2970990	2972258	170.2684229	222.1995999	183.4060511	276.372775	237.3970816	340.2480688	-0.604238806	2.105995654	1.7649221
B7L622	TY-2482_chromosome	-	2972294	2973295	225.2698986	194.0405842	198.6014415	136.8111381	159.2382664	191.6467257	0.414709991	1.013830149	0.8143292
B7L629	TY-2482_chromosome	-	2973295	2974275	118.0675651	137.7705088	113.338259	94.71716932	97.25735481	159.6129755	0.099722413	1.018817421	0.0872472
B7L630	TY-2482_chromosome	-	2974289	2975188	94.36085841	83.0715971	83.72238967	72.36963272	61.82006104	69.69988427	0.364433277	1.032653872	0.8300151
B7L631	TY-2482_chromosome	-	2975201	2976217	43.38590616	43.692502	40.82078062	51.37586169	42.70656175	48.66126646	-0.179795919	0.276870537	0.2071394
B7L632	TY-2482_chromosome	-	2976371	2977975	504.4010783	362.7195338	419.8151861	576.9637326	423.9517394	530.115885	-0.207074005	0.612398804	0.4778386
Q1R551	TY-2482_chromosome	-	2978330	2978836	122.6227465	142.4845571	105.2448046	52.79423969	58.38110354	28.36178439	1.263951167	7.976308709	7.1589479
B7L764	TY-2482_chromosome	-	2978890	2980578	394.0536485	424.3785011	385.4389479	962.0426163	1017.46602	938.1550738	-1.307202933	9.594844342	8.689847
B7L6V7	TY-2482_chromosome	-	2981364	2982416	36.87468122	29.07857512	28.15595623	30.0243331	23.65395325	16.25886918	0.372172392	0.786780262	0.6245026
C8TJB8	TY-2482_chromosome	-	2982409	2984901	172.8100681	153.0456628	171.7233089	96.40598248	100.0955385	105.1671289	0.767952061	3.743918886	3.2228759
B7L6V9	TY-2482_chromosome	-	2986603	2987847	26.32835778	25.29654826	18.79529676	36.20427343	17.13414947	23.83665619	-0.235901804	0.182352643	0.1347303
B7L6W3	TY-2482_chromosome	-	2988034	2988729	278.3725154	228.0834991	255.4939966	101.991821	91.8944787	87.02017608	1.456294487	11.65143676	10.644337
A1AH92	TY-2482_chromosome	+	2988722	2989447	253.3079508	268.4927424	314.6091329	301.6362201	253.8299931	282.8525893	0.009306318	0	0
B7L6W6	TY-2482_chromosome	+	2989447	2989884	184.8530272	146.1171615	181.6984219	176.5881715	183.8408577	177.6583426	-0.006525389	0.119679924	0.087634
B7L6W4	TY-2482_chromosome	-	2989859	2992135	836.1826603	737.7293749	802.8549431	1096.753354	964.5668807	1174.62561	-0.405864804	1.660477221	1.3772637
B7L6W8	TY-2482_chromosome	+	2992342	2992998	738.1214656	703.7972384	746.1033509	407.2993453	368.5290191	382.89356	0.922439057	5.230058938	4.588581
B7L6W9	TY-2482_chromosome	+	2993105	2994076	1073.36949	841.553203	985.0957773	2232.574021	2111.205734	2020.024986	-1.239328987	9.060292467	8.1805433
B7L6X0	TY-2482_chromosome	-	2994132	2994839	2322.608275	2542.265372	2654.291617	2777.81449	3035.96667	3831.277389	-0.198698191	0.247214335	0.1835021
B7L6W7	TY-2482_chromosome	+	2995273	2995560	370.8980716	391.0100921	356.3762921	379.887739	668.4216397	239.2077758	-0.268874639	0.342588288	0.2580838
A1AH99	TY-2482_chromosome	-	2995784	2996203	48535.48767	50997.89929	45241.06158	40510.79641	68400.64527	45941.59396	-0.103108102	0.085084655	0.0623272
E8YB84	TY-2482_chromosome	-	2996163	2996456	149.8478301	131.4023522	109.8283289	93.52830225	196.254273	34.21383671	0.187761334	0.363250239	0.2745976
B7L6X3	TY-2482_chromosome	-	2996725	2998791	7591.507358	6566.586147	6613.412278	6610.01651	11542.99763	14037.42584	-0.892561171	1.682211805	1.3957782
B7L6X1	TY-2482_chromosome	-	2998804	2999712	2518.121846	2203.239573	2296.214047	4948.504645	4167.93031	5230.649551	-1.001580536	2.316416835	1.9543939
B7L6X6	TY-2482_chromosome	+	3000281	3001273	136.0158741	120.3004431	164.8314884	96.32444912	110.1500357	105.2445371	0.516303687	1.499044133	1.2346752
B7L6X7	TY-2482_chromosome	-	3002314	3003765	115.6618957	133.8793037	145.507461	100.3724653	76.26861367	134.7985704	0.39016476	0.903474979	0.72154
B7L6Y0	TY-2482_chromosome	-	3003840	3005207	144.9446051	171.3466113	147.0853291	133.106356	112.837098	92.53461351	0.351025873	1.50718988	1.2412439
B7L6Y1	TY-2482_chromosome	+	3005573	3006562	27.75994089	21.79171252	26.43665815	42.7476223	25.37913133	25.34555138	-0.322473265	0.450506055	0.3438569
B7L6Y2	TY-2482_chromosome	+	3006643	3008181	38.15063218	34.30772765	39.01762873	72.1520383	48.12595179	52.83116274	-0.652932628	1.880432717	1.5678311
B7L6X9	TY-2482_chromosome	+	3008162	3009340	65.12118193	64.22584855	57.9091469	72.86285749	54.5651554	43.90819276	0.040190573	0.197816339	0.1460617
B7L6Y4	TY-2482_chromosome	+	3009255	3009428	19.93899903	23.5658842	29.40070781	29.60683246	34.68627869	20.20788784	-0.230410495	0.305404338	0.2286901
B7L6Y5	TY-2482_chromosome	+	3009421	3010596	187.7030425	183.2131753	187.4976672	175.1288027	207.5599242	181.6667602	-0.001167079	0.018708642	0.012479
B7L6Y3	TY-2482_chromosome	-	3010798	3011619	926.56753	932.3925202	900.4711061	993.2716893	1459.050898	904.355423	-0.297363505	0.703966032	0.5528807
B7L6Y6	TY-2482_chromosome	+	3011939	3013965	1111.310587	1120.234295	1038.384096	1730.421989	1131.939846	1436.6712	-0.446619193	1.173656218	0.9538012
B7L6Y7	TY-2482_chromosome	+	3014146	3015396	697.767592	642.2502452	700.5668941	743.055951	800.8032732	973.1383404	-0.233307197	0.880190578	0.7028605
B7L6Y9	TY-2482_chromosome	-	3015554	3016024	423.9769118	467.7511377	397.8859518	177.335177	182.0347084	163.3179735	1.247921465	9.447729166	8.5503114
B7L6Z0	TY-2482_chromosome	-	3016129	3016974	338.7387954	350.0840621	333.3303396	661.0282477	737.1438065	786.5454846	-1.08052032	7.119047187	6.357878
B7L6Z2	TY-2482_chromosome	+	3021526	3023109	91.60147407	81.75122758	55.46631285	47.1027779	36.37247739	29.36621606	0.906013417	4.056526158	3.5121249
B7L6Z9	TY-2482_chromosome	+	3024528	3025220	39.64893204	36.66725174	39.63187004	33.68070897	23.54577513	34.02659503	0.363108701	0.695929095	0.5467262
B7L701	TY-2482_chromosome	+	3026482	3027453	215.3176327	221.5406206	221.8401286	208.5349493	191.1327213	150.4432736	0.209137272	0.659151122	0.5156793
B7L6Z8	TY-2482_chromosome	-	3027456	3028589	59.77592028	70.63354753	53.84671421	71.2219667	67.38109045	49.14662776	-0.143035962	0.061415276	0.0433654
B7L705	TY-2482_chromosome	-	3029466	3031001	221.4118001	218.7947587	201.8498122	660.9025072	470.3247123	689.0376848	-1.513075217	10.9687628	9.969461
B7L706	TY-2482_chromosome	-	3031169	3032317	34.39267878	39.93240184	29.41232281	51.71662636	31.71454718	42.12030728	-0.375965392	0.536141729	0.4142374
B7L704	TY-2482_chromosome	-	3032510	3034351	1536.870128	1409.752617	1496.754587	835.847944	776.1800796	1017.865567	0.809238221	3.567214544	3.0662314
B7L708	TY-2482_chromosome	-	3034351	3035739	1726.75574	1598.042815	1815.133097	765.9368859	591.3997368	779.9273852	1.29857786	8.757937412	7.8923822
B7L709	TY-2482_chromosome	-	3035840	3036445	383.3931576	512.7274016	397.8800584	557.3253896	579.6693207	664.1223647	-0.535530409	1.65256608	1.3703445
B7L711	TY-2482_chromosome	+	3036674	3040636	303.0444036	258.5862287	271.2610939	307.3821811	263.8181669	331.2935827	-0.079195052	0.232605302	0.1725968
C8TME0	TY-2482_chromosome	+	3041369	3042208	107.3971719	142.7374779	127.4429033	41.41341447	54.80669792	23.10813563	1.549091535	10.30534186	9.362834
B7L717	TY-2482_chromosome	+	3042253	3043194	171.2163035	165.4915808	181.0069664	60.17971774	60.17971774	39.8808522	1.789542229	16.2862439	15.101115
B7L715	TY-2482_chromosome	-	3045272	3046405	54.32517654	75.47350089	62.66312751	67.83377309	39.92531563	39.87067309	0.231335088	0.791427722	0.6285966
B7L722	TY-2482_chromosome	+	3047307	3049217	772.6380778	665.7736357	736.8392676	889.3673907	732.490634	886.5865116	-0.173357701	0.528653085	0.4078812
B7L723	TY-2482_chromosome	+	3049450	3050595	660.2795147	677.488149	682.0322852	746.7872832	605.0595523	802.2300358	-0.084834304	0.186307569	0.1374092

B7L720	TY-2482_chromosome	+	3050598	3051182	471.0790025	431.5863313	535.0992981	348.7930527	351.3042123	310.7128631	0.540597726	1.877537746	1.5657173
B7L724	TY-2482_chromosome	-	3051200	3051406	350.5666842	406.1197255	376.9617623	122.9978409	183.0878396	137.0243548	1.342236064	9.535843834	8.6346528
A7ZTF2	TY-2482_chromosome	-	3051610	3051984	1110.434915	1202.490669	1155.381348	404.1066912	687.4488378	324.444804	1.256572909	7.328417801	6.5549985
B7L728	TY-2482_chromosome	+	3053324	3058171	517.5577855	504.8715554	478.5179405	327.4313767	405.0646659	343.5118093	0.48234657	1.696029136	1.4083054
B7L729	TY-2482_chromosome	+	3058543	3060195	73.40286441	65.01434663	65.91368367	342.0531009	297.4683333	413.9621977	-2.319750135	24.25916052	22.866987
B7L730	TY-2482_chromosome	+	3060198	3060971	83.8886301	72.88172187	75.16487456	258.543223	187.3536195	218.4544373	-1.52800363	11.91788621	10.898027
B7L725	TY-2482_chromosome	+	3060971	3062158	135.2361546	144.2506692	148.6374211	493.5093163	362.9710926	472.1555736	-1.645388219	13.09172305	12.014441
B7L732	TY-2482_chromosome	+	3062347	3062817	360.5332856	330.3764785	343.2803806	418.2566304	359.3487368	499.4884877	-0.259645714	0.82840013	0.6591535
B7L731	TY-2482_chromosome	-	3062876	3063694	1462.02827	1414.548258	1461.102073	2871.972141	2403.34357	2959.942635	-0.912010436	3.098760978	2.6467804
B7L734	TY-2482_chromosome	-	3063777	3064793	4745.030073	4606.010348	4799.931125	10849.24908	8968.452809	11019.41569	-1.112110656	2.418517512	2.0445041
B7L735	TY-2482_chromosome	-	3064796	3065260	4084.615845	4167.90109	4343.759442	8079.664153	7873.737484	8322.527146	-0.93631217	1.878875034	1.5666922
B7L736	TY-2482_chromosome	-	3065326	3065574	1787.238533	1806.111047	1961.044829	3339.522513	3115.071005	3239.063559	-0.79419097	1.653275352	1.3708715
B7L733	TY-2482_chromosome	-	3065719	3066147	1450.04444	1455.381792	1433.315353	20649.615354	2175.975108	1917.049629	-0.514242496	1.890288738	1.5763168
B6I3J1	TY-2482_chromosome	+	3066171	3066365	95.64859111	109.623529	91.56776234	82.51266922	64.55828111	62.09876114	0.412654987	1.683139679	1.396522
B7L738	TY-2482_chromosome	+	3066392	3067933	12611.72461	10580.21778	11678.88004	4959.817988	3849.389708	4921.532175	1.37813979	3.192835893	2.7307708
B7L739	TY-2482_chromosome	+	3067970	3069226	1010.425023	971.0548476	897.704671	1014.665863	927.2818032	1048.429964	-0.06049294	0.10864638	0.0798367
B7L737	TY-2482_chromosome	+	3069233	3070189	280.6292937	240.4010621	243.4723435	267.5756676	278.4049614	369.1475216	-0.187697303	0.659918931	0.5160497
B7L741	TY-2482_chromosome	-	3070182	3071213	29.01094502	27.07460536	38.69048246	42.73863488	31.72218703	49.62375477	-0.304709398	0.737041248	0.5814863
Q1R4X5	TY-2482_chromosome	+	3071443	3072465	3993.39818	3956.959309	4256.64305	6603.956564	5371.8759	8169.378985	-0.672894686	1.232561666	1.0021603
B7L740	TY-2482_chromosome	-	3072490	3073683	4417.305265	4780.799789	5097.853826	6443.15376	4597.368618	7999.535852	-0.374033428	0.544093357	0.4200418
B7L743	TY-2482_chromosome	-	3073961	3074815	629.5205195	717.8994743	674.0739784	429.3172274	518.1400109	150.0097132	0.743727746	2.605758272	2.2109944
B7L745	TY-2482_chromosome	+	3075119	3076048	3088.482524	3214.655529	3275.473529	3497.634532	3164.155069	4041.223205	-0.138107588	0.183129596	0.1352948
B7L746	TY-2482_chromosome	+	3076061	3077104	1989.07965	2196.928149	2229.711412	2835.822517	2188.515997	3184.669415	-0.346590325	0.504078354	0.3876826
B7L744	TY-2482_chromosome	+	3077111	3078100	1117.752096	1433.012575	1242.484499	1337.858482	1120.171639	1379.889871	-0.072307593	0.029163958	0.0195425
B7L748	TY-2482_chromosome	+	3078100	3079305	1328.08642	1474.94081	1285.284555	1742.739168	1965.040186	812.8861023	-0.275958031	0.244776818	0.1814782
B7L749	TY-2482_chromosome	-	3079347	3080486	1182.900117	1361.844208	1290.75973	1286.444919	1269.829066	187.142083	0.280845073	0.688417497	0.5398849
B7L750	TY-2482_chromosome	-	3080498	3081508	636.3100996	619.1596814	726.5219349	866.0688912	552.5019187	30.51375799	0.23425302	0.420289871	0.3202522
B7L751	TY-2482_chromosome	-	3081536	3082240	520.3016623	561.7781187	618.2171639	801.6512304	520.658136	30.51612638	0.092446255	0.289647186	0.2163259
B7L752	TY-2482_chromosome	-	3082269	3083273	664.7353053	682.8246228	716.4470956	947.7932427	906.7366167	68.73139028	-0.090402226	0.085376763	0.0624187
B7L753	TY-2482_chromosome	-	3083319	3084122	768.778425	797.9885718	718.1437142	830.4866175	898.3970412	458.780453	-0.037653179	0.102053904	0.0748618
B7L754	TY-2482_chromosome	-	3084109	3085230	963.0726631	1106.597451	996.1938798	1098.313868	942.762552	956.5934217	-0.028394234	0.0562581	0.0397725
B7L755	TY-2482_chromosome	-	3085230	3086285	728.1854004	867.0311821	803.4933818	1125.222711	1040.18976	921.2353581	-0.430502684	1.217272209	0.9888075
B7L756	TY-2482_chromosome	+	3086698	3087972	953.8157676	761.0367211	762.3210702	770.0824791	814.4690598	923.3008891	0.038086945	0.029168704	0.0195425
B7L747	TY-2482_chromosome	+	3087983	3088459	418.0087591	412.5084532	430.5137061	490.2988238	579.7576487	539.413736	-0.326179069	1.099212481	0.8884096
B7L758	TY-2482_chromosome	-	3088504	3089310	180.3122393	175.0427016	159.5618067	301.4544059	328.6023987	259.519936	-0.822197045	3.961053483	3.3423677
Q1R4V7	TY-2482_chromosome	+	3089324	3089596	6640.933894	5974.014201	6085.946539	5489.119161	7833.894522	5941.545936	-0.01170428	0.040267057	0.0276192
B7L760	TY-2482_chromosome	-	3089599	3089832	13666.82469	11857.92507	13892.80514	11436.35851	16339.20864	13544.32689	0.005540939	0.062391446	0.0440239
B7L757	TY-2482_chromosome	-	3090052	3090717	3036.996303	3129.049504	2769.452335	1311.808186	1855.804515	1221.353206	0.993406272	2.591354373	2.1987107
B7L762	TY-2482_chromosome	+	3090889	3092106	1332.712962	1270.143422	1245.750278	1648.910469	1627.12886	1842.981346	-0.391944623	1.363621532	1.1175757
B5YWD8	TY-2482_chromosome	+	3092087	3092542	909.554378	801.7016089	785.4885101	1640.96516	1823.774666	1748.461658	-1.040189261	6.528314137	5.8024558
B7L761	TY-2482_chromosome	+	3092652	3093245	492.1410393	461.5357513	466.7162491	681.2439466	829.995277	873.3237055	-0.697778571	3.535384265	3.0380052
B7L766	TY-2482_chromosome	-	3093288	3093926	793.3953099	841.8723746	791.5316249	717.594547	782.6552281	793.2401024	0.079104684	0.172645122	0.1275638
B7L767	TY-2482_chromosome	-	3093995	3094732	333.5547415	299.985062	347.4301577	1114.555618	912.6628204	1186.414269	-1.665177363	15.38628884	14.230734
E3XS42	TY-2482_chromosome	+	3094640	3094819	64.44272326	54.95095549	58.0199839	209.0917741	157.3112014	203.7638554	-1.665101115	14.20502106	13.092218
B7L765	TY-2482_chromosome	+	3094835	3095695	1365.410683	1508.979301	1468.376679	2453.498867	2424.360572	2482.559141	-0.77621752	2.477425233	2.0959179
B7L769	TY-2482_chromosome	+	3095907	3096740	406.7399484	457.429314	395.289959	501.8095657	443.2692721	254.8248175	-0.065708781	0.109697211	0.0804742
B7L770	TY-2482_chromosome	+	3097035	3097649	332.5901234	388.1999272	371.0822656	676.4029848	1195.179947	769.992304	-1.276873782	7.409529248	6.6315681
B7L771	TY-2482_chromosome	-	3097652	3099331	113.0186828	117.4634531	90.70999017	94.40377632	97.35218322	107.718818	0.070306456	0.185117657	0.136645
B7L768	TY-2482_chromosome	+	3099589	3100209	2532.146736	2504.06645	2611.93328	1872.738993	2116.810036	2070.73532	0.361935894	0.493738733	0.3793289
B7L773	TY-2482_chromosome	+	3100267	3100539	1697.684809	1505.32466	1643.346415	1681.706929	1766.403176	1847.021837	-0.082807498	0.27544059	0.2059329
B7L774	TY-2482_chromosome	+	3100561	3102666	4126.817924	3411.534374	3534.74445	4556.17129	4566.590003	5345.066594	-0.331649934	0.529779814	0.4088822
B7L775	TY-2482_chromosome	+	3102676	3103362	840.055273	709.2526176	709.5572516	815.7678454	1020.180047	1149.442838	-0.327091637	1.338051146	1.0956787
B7L772	TY-2482_chromosome	+	3103371	3105449	1925.962776	1534.033741	1633.941837	1723.611439	1781.827295	2180.894387	-0.083079976	0.345925833	0.260843
B7L777	TY-2482_chromosome	-	3105621	3106823	1015.623276	938.2979674	985.719057	420.116419	380.2870957	534.9293001	1.195496573	7.264436469	6.4943925
B7L778	TY-2482_chromosome	+	3107103	3108491	202.4503933	263.1995607	208.4171865	479.3786479	500.5538977	459.2886403	-1.177312861	6.84957475	6.1024512
B7L776	TY-2482_chromosome	+	3108615	3110321	1353.642977	1237.252483	1333.70275	892.6625267	742.5099572	873.4736879	0.663977313	2.757371183	2.3459122
B7L780	TY-2482_chromosome	-	3110380	3112695	191.1694269	238.5769017	229.1998911	208.5597284	150.0280601	188.0797944	0.21686901	0.68158972	0.5349285

B7L781	TY-2482_chromosome	-	3112708	3114087	73.52884165	68.93538445	51.00170218	49.26837017	51.90834578	43.63246017	0.360240604	1.049173123	0.8446762
D8CB43	TY-2482_chromosome	-	3114181	3114534	59.83517523	63.71793634	53.91882575	32.18563781	39.25130849	22.84316675	0.838940793	3.348845441	2.8684768
selC	TY-2482_chromosome	+	3114380	3114474	46.52849502	41.42858164	37.38490305	16.09270118	29.3301256	13.59170366	1.069570843	3.631755317	3.1225518
B5YWF9	TY-2482_chromosome	+	3114696	3115955	778.5215867	785.3741413	727.4137703	292.8290741	328.6008453	269.9614936	1.335894626	10.61289014	9.6533822
E1U309	TY-2482_chromosome	-	3116080	3116774	201.9327788	217.8518201	176.6201276	94.06844621	135.7132556	117.08351	0.766982075	3.74720022	3.2258413
Q4MUS7	TY-2482_chromosome	-	3116967	3119960	1441.206495	1339.697739	1280.670018	1141.804921	1065.561033	1487.403748	0.180231805	0.283920115	0.2120609
D3H359	TY-2482_chromosome	-	3119936	3120493	1240.06626	1103.137464	1109.060254	490.970837	595.2551429	515.8376074	1.131461656	7.846515103	7.0390391
D3H361	TY-2482_chromosome	-	3121175	3122185	442.6536854	475.9746832	439.607004	147.6602424	162.9438775	144.8563187	1.550479243	13.46404735	12.377573
C7S9T5	TY-2482_chromosome	+	3122142	3122813	1123.829134	1266.786482	1237.981801	520.2498202	657.3114962	304.8691684	1.210706792	7.517862496	6.7341568
Q3I3P0	TY-2482_chromosome	+	3123010	3123390	312.6359134	271.910818	325.671695	319.0585433	303.89454	362.8586588	-0.047615961	0.2311681	0.1714872
D3H364	TY-2482_chromosome	+	3123387	3124163	550.3867891	589.0684623	514.1046013	549.6128761	542.3634131	578.7913655	-0.041225002	0.026284666	0.017635
Q7AQT7	TY-2482_chromosome	-	3124203	3124904	426.1350118	473.4016223	451.5817552	370.0320574	423.173342	465.4588901	0.117961762	0.206004037	0.1520712
C8UQP4	TY-2482_chromosome	-	3124954	3125352	230.2377668	237.2071228	249.664777	138.9656593	157.4561152	160.397757	0.679231749	2.924964176	2.492991
C8UQP5	TY-2482_chromosome	-	3125505	3125831	899.5297289	975.8983914	954.7069532	549.9496437	492.3195822	455.4594739	0.874228481	5.27525699	4.6308517
C8UQP5	TY-2482_chromosome	+	3125826	3126080	665.442472	789.2367648	655.3916913	328.5212438	327.657732	268.7389524	1.102967847	7.921299273	7.1064308
C8UQP4	TY-2482_chromosome	+	3126233	3126631	231.6932012	271.8115248	234.8946752	145.8309224	152.933937	127.8838848	0.726100116	3.919702537	3.3861634
Q7AQT7	TY-2482_chromosome	+	3126681	3127382	436.1055796	447.1297576	348.1567675	359.611229	404.987082	416.9198401	0.03391517	0.106129839	0.0784309
E3PYS5	TY-2482_chromosome	+	3128042	3128989	409.4749207	248.161405	363.9457757	168.4136204	203.8878915	205.0938407	0.96666655	3.709403296	3.1919226
C8UQP1	TY-2482_chromosome	+	3129300	3130112	11320.68459	12594.86992	11344.02445	14253.34673	14954.85246	16668.61488	-0.387614499	0.465015029	0.355653
A8SPZ5	TY-2482_chromosome	+	3130176	3131105	8200.796699	8211.712281	8014.516176	10647.86987	11416.57369	12880.91496	-0.490328075	0.727209018	0.572606
Q7AQT7	TY-2482_chromosome	-	3131879	3132580	500.9781258	565.4680306	476.4547838	420.7441199	446.8218026	483.9729967	0.165582769	0.458412978	0.3499069
D3H369	TY-2482_chromosome	-	3132630	3133931	550.5531406	485.0613116	498.3750652	482.3844367	578.8488782	543.3326681	-0.025789505	0.123056946	0.0903596
Q935L3	TY-2482_chromosome	-	3135290	3136981	75.90356919	46.32337646	62.02360973	70.16390966	42.62322672	56.59857463	0.174716406	0.202562878	0.1495986
C8UQM8	TY-2482_chromosome	+	3138202	3138633	126.9440017	139.2097657	150.7340213	58.60064873	74.62787428	87.73022023	0.980272436	4.782708454	4.1756719
P11901	TY-2482_chromosome	-	3139007	3140116	236.2826999	251.8230773	226.2985662	170.5189095	225.8537826	155.6446723	0.335728627	1.089151651	0.8800551
D3H379	TY-2482_chromosome	-	3140579	3140911	68.69302181	65.48216691	81.4982574	43.15575026	52.85496004	43.56587618	0.673115408	2.210973498	1.8599788
E5FD82	TY-2482_chromosome	+	3140964	3141227	719.5687332	725.3524505	560.0569799	349.4676252	344.010532	313.3149395	0.928017595	5.741750521	5.06558
D3H381	TY-2482_chromosome	-	3141265	3141912	8916.600869	8165.837671	8101.610664	3046.192709	3542.848393	3709.835993	1.331033244	3.083563972	2.6342692
D3H382	TY-2482_chromosome	+	3142018	3143214	573.0204861	490.4022328	511.5786813	235.6783084	262.1538898	223.857072	1.144670956	7.339206348	6.5652219
Q6SJ76	TY-2482_chromosome	-	3143252	3144160	167.7446571	125.5964454	152.544248	71.24256369	87.40370162	86.71712912	0.95332852	4.663539706	4.0675274
D3H369	TY-2482_chromosome	-	3144097	3144837	328.4575129	294.1515679	286.3594173	190.4846551	303.2233389	239.5180752	0.353890982	0.834180873	0.663386
Q0TDJ8	TY-2482_chromosome	-	3147419	3147708	129.894756	144.4665716	162.0386492	66.42190886	63.70049381	59.35857381	1.197654748	8.522720324	7.6681954
C8TTS1	TY-2482_chromosome	+	3148481	3149235	64.57829147	52.21833067	49.23529507	26.22841411	30.09187407	22.61629675	1.067574285	4.514966157	3.9326248
E9YZX6	TY-2482_chromosome	+	3149872	3150217	153.1440972	169.7888507	172.4159421	74.57006895	104.8194385	71.39051363	0.971706519	5.476000494	4.8192528
C8TWJ4	TY-2482_chromosome	+	3151826	3152695	269.1551818	292.9550544	264.6183142	387.1752206	292.2551962	59.41231906	-0.059941984	0.188261696	0.1388305
C8TV65	TY-2482_chromosome	+	3152695	3153666	30.21476017	25.57803843	18.01152588	36.41817194	22.71837432	11.25778852	-0.095531214	0.043368837	0.0298383
C8TNL5	TY-2482_chromosome	+	3153931	3156885	661.0746512	657.0102752	659.54774	562.8210115	457.6178908	648.1711158	0.268085415	0.616660484	0.481455
B3Y1R9	TY-2482_chromosome	+	3156923	3157114	60.47211547	75.46857272	56.49696272	23.82010884	41.1117224	29.08813085	0.981584973	4.06550282	3.5201005
C8TWJ8	TY-2482_chromosome	+	3157272	3158087	53.06927241	58.44971337	49.32275429	11.30556785	21.01718202	19.5663848	1.650768283	8.023076955	7.2013198
Q1RA72	TY-2482_chromosome	-	3158212	3158259	40.11972111	50.95633423	51.67551259	7.971068391	5.401533939	7.840470108	2.711737004	15.60893361	14.446518
Q5K5L6	TY-2482_chromosome	-	3158426	3159382	90.80470871	79.6183337	60.88208675	42.59849974	41.8295254	47.23707656	0.79762182	3.141346063	2.6831243
D3GX48	TY-2482_chromosome	+	3159733	3160215	117.9848147	150.0743043	118.6203964	72.76505671	83.78435746	71.20634085	0.688546895	3.636482636	3.126664
B7MNT7	TY-2482_chromosome	+	3160151	3160639	41.08606988	49.89167748	35.9979008	33.93170174	43.76942764	34.37731869	0.106599818	0.249322184	0.1853625
B7LBT9	TY-2482_chromosome	+	3160639	3161124	44.22499033	32.72898258	44.38365149	23.28891844	37.47130479	23.95139703	0.599071858	1.248890842	1.0167066
B7L784	TY-2482_chromosome	+	3164362	3165282	444.9550704	425.6363233	456.2838621	303.855355	351.3348644	318.4539451	0.473022185	1.577042778	1.3041834
B7L785	TY-2482_chromosome	-	3165292	3166107	370.1015619	368.8702837	402.2184961	127.4232975	142.0554085	105.6392172	1.597199615	13.91075817	12.804081
B7L783	TY-2482_chromosome	+	3166329	3166619	35.85417167	50.73842015	25.817359	11.07941233	26.50655221	25.9678926	0.761561955	1.85421131	1.565949
B7L787	TY-2482_chromosome	-	3166666	3168012	171.9861001	182.2645439	161.5717892	163.3154996	163.7564621	198.3447649	-0.025420502	0.046068454	0.0317519
D3H2G2	TY-2482_chromosome	-	3168061	3168537	243.9743096	214.3841395	209.099779	70.69983522	69.09214514	91.68309296	1.57589768	12.83281103	11.768962
B7L789	TY-2482_chromosome	+	3170072	3171835	278.2903155	248.1510932	264.0688884	407.3837064	330.2515361	390.6619676	-0.498537902	1.916923377	1.5990123
B7L790	TY-2482_chromosome	-	3171886	3173274	74.17759865	64.98750559	64.55327488	56.43574196	43.67003057	30.82748445	0.569963309	1.992406287	1.6652971
B7L809	TY-2482_chromosome	-	3173415	3174731	115.1014662	111.5056003	126.2655598	75.72218227	107.4959783	92.10853259	0.413403596	1.092559079	0.8825375
B7L808	TY-2482_chromosome	-	3174744	3176243	145.1421364	136.8645276	135.9147303	135.9540307	122.7923051	143.2588421	0.068066131	0.107301363	0.0791635
B7L811	TY-2482_chromosome	-	3176246	3176833	92.12519867	75.93246587	85.15312542	94.95943339	79.14731699	70.06290739	0.046358339	0.083149649	0.0609934
B7L812	TY-2482_chromosome	-	3176911	3177198	71.87833533	60.46282213	70.03517242	33.07339262	26.33711467	27.73564519	1.229533835	6.252369369	5.5448468
B7L813	TY-2482_chromosome	-	3177205	3178890	347.8057497	280.3461794	374.0018714	242.5788542	230.2658946	189.8251453	0.633900615	2.434188665	2.0581443
B7L810	TY-2482_chromosome	+	3178874	3179368	446.7281207	461.4967746	276.4699675	131.0172516	377.3994944	116.8033381	0.829317627	2.35626826	1.9885134

E1JD58	TY-2482_chromosome	-	3179518	3179874	2301.904248	2184.663663	2185.297774	632.8922717	1387.361794	674.2620682	1.331395273	6.594322619	5.8628604
E1HWK4	TY-2482_chromosome	+	3179789	3180124	33.19406145	30.23345534	19.26338908	18.73613397	26.46544986	22.39684294	0.258361086	0.440125908	0.3357537
B7L816	TY-2482_chromosome	+	3180167	3181348	178.6936745	163.5256536	197.6469165	286.9132573	291.207514	297.3063234	-0.647893811	3.268453819	2.7971926
B7L817	TY-2482_chromosome	-	3181362	3181856	339.6762015	304.4416105	295.5985655	247.3258412	348.7683529	212.3656868	0.208962313	0.480122556	0.3675663
B7L819	TY-2482_chromosome	-	3181856	3182215	82.994252	93.96945494	72.96990962	84.10214665	80.98026184	80.32075667	-0.04037502	0.00994029	0.0065011
B7L820	TY-2482_chromosome	-	3182208	3182552	111.5248277	112.6589349	92.09331395	94.56360862	95.56108614	90.87313607	0.128117132	0.376860763	0.286234
B7L818	TY-2482_chromosome	+	3182661	3183107	85.91180106	92.47340758	89.77929571	86.55108232	96.5027936	88.22815072	-0.026016371	0.019369864	0.0128505
B7L822	TY-2482_chromosome	-	3183160	3184650	98.03174456	95.26942863	88.29693523	94.06224567	90.10390593	79.18503911	0.061669113	0.175640694	0.1295024
B7L823	TY-2482_chromosome	-	3184650	3186362	30.14048725	31.80765328	16.54084069	46.94758284	41.87324561	31.98073531	-0.77219982	1.518400715	1.2510262
B7L821	TY-2482_chromosome	+	3186499	3187419	31.57773246	20.0888181	29.81773242	69.58177995	54.59412318	38.74092563	-0.981751476	3.424976545	2.9382338
C8TLC9	TY-2482_chromosome	-	3187598	3188233	48.69801883	42.05461124	45.5223774	30.70399102	41.07726261	26.65906009	0.482249642	1.146376451	0.9295106
B7L827	TY-2482_chromosome	-	3188236	3190110	48.80312199	41.65524346	38.70894797	68.4933465	45.44208685	34.80245855	-0.292350227	0.338716019	0.2549046
B7L828	TY-2482_chromosome	+	3190145	3190858	17.11071074	16.23530685	20.65557729	47.57592823	27.21140577	21.62048374	-0.899028445	1.975552469	1.650057
B7L824	TY-2482_chromosome	-	3190861	3192519	829.4476091	783.256676	750.5222852	924.8172444	871.8206926	822.4409265	-0.168395258	0.355783998	0.268729
D3H311	TY-2482_chromosome	-	3192719	3193150	22.56396227	24.48573955	14.73822447	48.74308013	49.18561009	37.19718672	-1.24316998	4.123963935	3.5735214
D3H312	TY-2482_chromosome	-	3193259	3193675	79.35192267	72.6130311	73.19465897	161.1988197	197.529546	191.9890286	-1.251105168	9.622501314	8.7152041
B7L832	TY-2482_chromosome	+	3193975	3194304	356.5004284	434.1030372	392.8030877	329.5518538	347.6467362	345.9951086	0.175321129	0.511151707	0.3933937
B7L833	TY-2482_chromosome	-	3194312	3195523	1061.891328	1058.946745	1092.719168	1007.625819	859.93119	932.7994776	0.190626793	0.500907215	0.385133
B7L829	TY-2482_chromosome	+	3195624	3196685	52.9912422	47.83455071	65.06797662	55.53162697	47.31429312	38.53383137	0.241947728	0.455347246	0.3476955
B7L834	TY-2482_chromosome	-	3196688	3197977	53.17248985	29.34220537	63.99270547	51.35749318	31.76472406	28.08883664	0.473268841	0.776177002	0.6152798
B7L836	TY-2482_chromosome	-	3198100	3199245	66.26486417	88.84362112	81.275116	63.56552111	33.47241773	57.67253586	0.541830332	1.797730535	1.4949843
B7L835	TY-2482_chromosome	-	3199245	3199859	54.53317616	54.46294956	58.17166567	39.95822052	17.99966703	35.31422931	0.826547074	2.728579328	2.3216012
B7L838	TY-2482_chromosome	-	3199846	3200721	117.3027691	128.4046307	123.4486373	102.1067092	62.59643601	106.1770915	0.430794779	1.354950718	1.1096638
B7L837	TY-2482_chromosome	-	3200721	3201407	189.8370451	191.2226564	215.4380973	142.1604857	142.7898012	200.695572	0.373048565	0.821890516	0.6539066
B7L840	TY-2482_chromosome	+	3201685	3202338	273.0330324	240.6701719	269.4338199	124.7851296	124.6782181	119.8117851	1.112110715	7.140619847	6.3772489
B7L841	TY-2482_chromosome	-	3202390	3203199	1789.595497	1657.160356	1829.60112	1195.167755	1073.765929	1371.850817	0.584056652	2.014442088	1.6842837
C3SLN7	TY-2482_chromosome	-	3203317	3203721	120.4806255	97.12248844	124.3195577	48.61888562	89.40787596	60.71827332	0.878623093	3.230858373	2.7649156
B7L843	TY-2482_chromosome	-	3203955	3206366	4498.150355	4736.855882	4772.214816	8455.374556	7227.523672	9189.292593	-0.820630607	1.510472328	1.2438236
B7L842	TY-2482_chromosome	-	3206398	3207468	412.041599	412.2373961	409.9676763	635.330024	735.3260693	802.2563549	-0.779169231	4.015551296	3.4738084
B7L845	TY-2482_chromosome	-	3207471	3208568	1407.609423	1209.047328	1258.303152	1649.994393	1956.644214	1973.280476	-0.472052407	2.002743537	1.6742174
B7L846	TY-2482_chromosome	-	3208576	3209976	1213.606333	1265.037343	1367.515444	2495.085295	2093.032953	2403.56864	-0.859607329	4.129315514	3.5781965
B5YXA5	TY-2482_chromosome	-	3210273	3210470	615.5964946	662.6768911	454.2848672	198.8122981	429.0295283	225.5111394	0.965367463	4.013373534	3.4719617
B7L844	TY-2482_chromosome	+	3210740	3211096	1699.569394	1192.040239	1277.951922	2152.169777	2653.701072	3174.059419	-0.820334985	3.093312111	2.6424078
B7L848	TY-2482_chromosome	+	3211063	3211317	796.8257231	639.6289908	588.537445	1173.804233	1152.003133	1750.290969	-0.930001976	5.130703858	4.4987078
B7L849	TY-2482_chromosome	+	3211323	3212966	4156.822187	3241.813511	3372.273241	9008.687823	8974.853366	11521.69635	-1.37762381	3.667792811	3.1545752
B7L851	TY-2482_chromosome	+	3213075	3214436	770.239316	772.916391	782.3769889	712.9580868	562.2073553	1038.3802	0.073809724	0.011984566	0.0078734
B7L853	TY-2482_chromosome	+	3214977	3216389	228.4584607	325.0682466	283.2644696	8775.193203	7448.660024	9654.98923	-5.004421949	28.28653108	26.823085
B7L854	TY-2482_chromosome	+	3216483	3217727	35.82871203	32.11803318	41.84511954	408.745757	419.4471704	580.8754114	-3.56867923	46.91247072	45.085634
B7L855	TY-2482_chromosome	+	3217863	3219035	99.75140327	80.62239052	76.28915323	95.64183388	108.3150275	109.1133481	-0.251738499	0.7674956	0.6083864
B7L852	TY-2482_chromosome	+	3219013	3219969	294.9219432	247.942399	233.4244203	192.729788	244.8873085	217.1152921	0.274936905	0.640501851	0.5003277
B7L857	TY-2482_chromosome	+	3220117	3220875	1622.972854	1445.640197	1426.599211	986.9704384	937.2924295	1098.316992	0.600215195	2.314537208	1.9536332
B7L858	TY-2482_chromosome	+	3220900	3221463	1391.252375	1050.39915	1243.227706	2017.444421	2102.247734	1909.11913	-0.657656498	3.224913833	2.7595272
B7L859	TY-2482_chromosome	-	3221523	3222857	894.6226503	763.3417726	772.3107944	1349.629374	1314.293583	1314.293583	-0.650049312	3.059817463	2.613192
B7L856	TY-2482_chromosome	+	3223024	3223686	313.3287572	336.5716821	288.9441597	303.8279652	379.6045874	300.2037896	-0.103630017	0.129172213	0.0942118
B7L861	TY-2482_chromosome	+	3223756	3224226	25.47018457	23.54318028	23.69774407	40.96612471	40.09253174	26.78484597	-0.610238829	1.365606523	1.1192252
B7L862	TY-2482_chromosome	+	3224278	3224862	126.2119304	146.1617992	139.3279599	83.11509844	75.56035627	55.74812147	0.8610066	5.104775167	4.4748133
B7L863	TY-2482_chromosome	-	3224930	3225649	76.13841281	75.60188188	92.07078415	54.79558104	74.72124917	63.20804277	0.396655022	0.929258865	0.7431081
B7L864	TY-2482_chromosome	-	3225667	3226860	47.01504835	51.29592382	50.18733226	54.28996623	38.12973666	42.24629771	0.089059532	0.214743927	0.1588675
B7L866	TY-2482_chromosome	-	3228565	3229956	21.77674124	14.59427993	21.9225994	42.8212959	38.19223762	38.25339779	-0.957101224	3.48110659	2.9887828
B7L867	TY-2482_chromosome	-	3229978	3231852	42.01084978	34.45574125	37.56725927	47.2499417	42.7091019	52.43795854	-0.273399367	0.647373531	0.5056196
B7L870	TY-2482_chromosome	-	3233111	3233833	774.8976604	675.8494329	716.3009109	379.6585374	325.7081484	395.8180558	1.007503939	5.770498825	5.0934244
B7L868	TY-2482_chromosome	-	3233851	3234621	554.2003244	543.4487174	510.8589518	247.4746581	249.3304218	268.2767124	1.074929978	6.868279589	6.1195584
B7L872	TY-2482_chromosome	-	3234715	3235602	193.873738	184.9914776	150.7824045	86.64941677	80.02521115	94.55166523	1.000547712	6.214361065	5.6024492
B7L873	TY-2482_chromosome	-	3235605	3236561	185.1362479	130.5790317	139.7214154	97.05878593	88.18239498	119.3236078	0.660521875	2.140535872	1.8852497
B7L874	TY-2482_chromosome	-	3236651	3237688	340.5001142	311.4998034	261.0350486	131.8155188	152.9461538	135.6127027	1.103472421	7.067094749	6.3092074
B7L871	TY-2482_chromosome	-	3237939	3239009	65.35188757	58.80341354	43.05381758	40.78377872	55.75259155	19.26674002	0.422437295	1.078155988	0.8704433
B7L876	TY-2482_chromosome	-	3239023	3241542	233.8470317	292.1937782	256.0997726	121.9854603	150.2704774	113.447452	0.960477204	5.838711457	5.1561742

B7L875	TY-2482_chromosome	-	3242349	3242918	132.2327269	144.0760026	145.3169339	71.88369634	99.32022628	77.78667147	0.765600747	3.66784712	3.1545752
B7L879	TY-2482_chromosome	-	3243223	3245049	12504.00902	10814.37818	11637.26744	15792.22318	14138.46527	17978.86528	-0.404525738	0.587313557	0.4561068
B7L878	TY-2482_chromosome	-	3245214	3246581	7285.490355	6497.44852	7453.520924	11051.50634	9701.992104	10798.51913	-0.538167181	0.85045403	0.6769717
A1AHR3	TY-2482_chromosome	+	3246827	3247372	16267.13614	14281.22966	14900.76352	14192.62884	12174.58676	14115.13034	0.186984434	0.168715293	0.1242669
B7L882	TY-2482_chromosome	-	3247375	3248754	41384.05932	36649.47375	37406.81581	42705.25995	29480.03428	41757.36297	0.028524402	0.015699234	0.0102412
B7L880	TY-2482_chromosome	-	3248784	3249644	21167.00513	18685.6542	18609.21874	21869.93617	16212.42705	20962.85204	-0.011227581	0.012208628	0.0079053
B7L884	TY-2482_chromosome	-	3249698	3251236	44060.63009	36874.00009	39250.21403	56173.19511	45671.73434	57073.81333	-0.371106953	0.467350535	0.3576211
Q1R4J7	TY-2482_chromosome	+	3251423	3252157	24390.35941	18339.07626	20356.23843	25498.78619	21905.76178	26108.22061	-0.167963771	0.226877415	0.1677421
B7L883	TY-2482_chromosome	-	3252332	3252568	8677.389906	7447.510841	7425.474171	7670.638342	6947.278506	7584.477443	0.099307457	0.083582719	0.0613264
B7L888	TY-2482_chromosome	-	3252618	3253430	6478.716587	5387.383617	5905.102622	7587.122538	7603.474442	7584.548612	-0.32047901	0.459480355	0.3508521
B7L887	TY-2482_chromosome	-	3253442	3253819	1110.558417	1092.264899	1070.818091	996.6915131	1388.976204	811.0629995	0.009952637	0.055559546	0.0392716
B7L890	TY-2482_chromosome	-	3254439	3255059	353.0088933	330.3743336	350.6038477	786.3251836	1088.56496	869.7798609	-1.371661831	10.43668791	9.4874596
B7L889	TY-2482_chromosome	-	3255126	3257012	1546.559405	1578.509533	1412.682831	5543.966449	5253.658984	6317.308654	-1.918111343	6.493425062	5.7703304
B7L892	TY-2482_chromosome	-	3257394	3257834	525.5504859	609.6316444	571.0885858	2268.046353	3207.251033	1977.932247	-2.170363295	19.75957271	18.478625
B7L893	TY-2482_chromosome	-	3257927	3258382	158.9999172	216.8522397	178.8177289	90.80168279	124.7578807	116.9809434	0.701863599	3.257063601	2.7871663
B7L891	TY-2482_chromosome	+	3258534	3259523	759.8204301	699.0253285	781.1634247	881.3146179	961.0827994	785.7220892	-0.216304909	0.622325013	0.4856844
B7L895	TY-2482_chromosome	-	3259534	3260982	2228.599902	2186.88338	2090.169356	352.6521483	336.6825571	361.7349851	0.262553005	34.46533445	35.859067
B7L896	TY-2482_chromosome	-	3260979	3262472	4593.213858	4407.852352	4727.351365	453.8358074	398.5195201	478.6984483	3.391423168	17.82424162	16.594648
B7L897	TY-2482_chromosome	+	3262695	3264560	433.0215676	402.6195386	436.4694984	382.8152905	394.971462	381.5879788	0.156730941	0.296199945	0.2216257
B7L894	TY-2482_chromosome	+	3264730	3265146	191.2542002	245.2221366	193.2140725	118.5643496	154.8220808	123.8485935	0.596933501	2.779451939	2.3648781
B7L899	TY-2482_chromosome	+	3265157	3266659	143.6471231	148.6107356	122.4846377	227.7233724	178.310858	170.0252162	-0.56000407	1.691386334	1.4044003
B7L8A0	TY-2482_chromosome	+	3266667	3267629	810.7870441	813.1164171	652.5483604	526.591752	424.9600988	368.8157195	0.687631318	3.558907024	3.0585266
B7L8A1	TY-2482_chromosome	+	3267657	3268544	2704.127858	2794.670647	2752.493028	2921.78175	3159.766849	2574.974046	-0.093562209	0.072967957	0.0526105
B5YY10	TY-2482_chromosome	+	3268658	3269523	727.6550479	688.4215177	737.5330343	1188.420985	933.6280177	956.0593583	-0.546068248	2.225878282	1.8731721
B7L8A3	TY-2482_chromosome	+	3269606	3270595	731.3930943	777.0044713	659.2973558	543.9405569	491.3938015	492.1552309	0.449319865	1.876626114	1.5650007
B7L8A4	TY-2482_chromosome	-	3270567	3271991	1799.99543	1877.521448	1803.034957	562.6612976	617.9569765	582.8663236	1.629445558	14.75641737	13.627271
B7L898	TY-2482_chromosome	-	3272017	3272706	2436.223585	2768.815967	2913.817362	837.465946	837.2840121	701.5513015	1.742405183	16.30756077	15.120972
E9WNY3	TY-2482_chromosome	-	3273100	3273333	124753.348	570273.1123	245639.7361	42498.11875	65734.72703	121911.0399	1.789032838	3.667229231	3.1545537
rrsD	TY-2482_chromosome	+	3273187	3274728	865846.7936	3835376.966	1867803.977	203826.6413	239861.9908	766092.9569	2.30533629	4.454482396	3.8786394
Q57H85	TY-2482_chromosome	+	3274308	3274625	212115.8979	947810.7811	430677.238	14144.2374	17791.12336	87732.00913	3.658437741	7.565959059	6.7787697
ileT	TY-2482_chromosome	+	3274797	3274873	485.5912943	542.7585459	273.6578243	118.5819056	344.6812177	89.30420049	1.087630284	3.427302907	2.9402682
alaT	TY-2482_chromosome	+	3274916	3274991	326.5429379	289.9567635	178.042858	122.0220654	321.9239199	72.30140148	0.526691462	1.136230535	0.9204608
rrlE	TY-2482_chromosome	+	3275175	3278078	487709.3181	5076912.29	1355130.915	1123196.727	931346.3547	4979993.398	-0.417760475	0.012616826	0.0081495
Q1R3T8	TY-2482_chromosome	-	3275401	3275703	85962.77924	712582.6458	230737.9444	297626.8088	245759.0279	1188536.359	-1.072491133	0.630905771	0.4920437
C1HUN3	TY-2482_chromosome	-	3276761	3276964	47578.40761	599810.4111	148749.708	121413.9925	101060.8032	597982.7426	-0.462557246	0.02654236	0.0152692
C1HUN1	TY-2482_chromosome	-	3277041	3277493	88841.92623	1000761.893	244285.6674	71049.53678	42619.96919	477708.4319	0.821516977	0.957439372	0.7665888
C1HUN0	TY-2482_chromosome	-	3277497	3277853	74729.46513	765230.3384	206157.2011	47884.8261	30721.04655	335043.1362	1.034675596	1.184944455	0.9622385
Q1RFY5	TY-2482_chromosome	-	3278057	3278332	5106.69588	24636.21427	3013.561005	18065.46296	146364.8713	16402.06942	-3.197744441	3.088592798	2.638494
rrfC	TY-2482_chromosome	+	3278171	3278290	3695.033332	13965.69541	200.9984743	15135.12272	142397.2224	6275.859656	-4.047362462	3.137675658	2.6802731
Q8CLS5	TY-2482_chromosome	-	3278298	3278420	1552.039391	1791.132372	773.270481	1093.167476	2670.624766	1115.1547	-0.403694573	0.371380319	0.2814086
aspT	TY-2482_chromosome	+	3278343	3278419	1505.024271	1580.964128	757.4896678	839.0281885	2099.155561	782.4267956	-0.084573516	0.05535019	0.039161
trpT	TY-2482_chromosome	+	3278428	3278503	1384.740007	1296.286394	706.0738813	486.9680622	1311.100226	444.3841514	0.504778416	1.25401823	1.0211839
B7L8A6	TY-2482_chromosome	-	3278602	3279438	443.2910334	489.2546544	504.5461806	582.6730371	584.2965002	476.6183386	-0.227922669	0.464837625	0.355598
Q8D1L6	TY-2482_chromosome	+	3279476	3279892	1333.65338	1116.237869	1105.008789	540.5031504	1072.489198	457.3876312	0.789377511	2.733248618	2.3257844
B7L8A8	TY-2482_chromosome	-	3279923	3281470	209.4084361	215.9032333	193.2528018	174.5751949	140.1176148	118.8545249	0.429761434	1.850902791	1.5431602
B7L8B0	TY-2482_chromosome	+	3282031	3283674	519.8112868	494.8302516	485.8223228	492.3643079	354.7977018	414.4840214	0.220320005	0.64593579	0.5048408
B7L8A7	TY-2482_chromosome	+	3283674	3283934	148.3060973	110.1473717	134.0506144	143.7705182	109.9465951	182.2474871	-0.050971143	0.2854321	0.213236
B7L8B1	TY-2482_chromosome	+	3283957	3284883	1026.026065	971.8487058	1062.410863	1271.631764	952.6737489	1308.755537	-0.182708387	0.480433302	0.3677537
B7L8B3	TY-2482_chromosome	+	3284951	3286798	1168.147862	1092.884492	1172.620219	1557.902786	1127.373138	1726.941099	-0.32659175	1.021382286	0.8205234
B7L8B4	TY-2482_chromosome	+	3286804	3288345	928.013245	930.1808259	969.9411632	1179.482973	1102.932939	1218.165514	-0.295547	0.894755447	0.7152729
B7L8B2	TY-2482_chromosome	-	3288403	3289293	1092.315779	1330.846569	1302.76056	666.981047	766.3025215	735.4082622	0.770657454	4.133431076	3.5819735
B7L8B5	TY-2482_chromosome	+	3289443	3290915	18864.92339	19213.14201	19593.81887	20176.00937	18057.17895	20197.24293	-0.018241273	0.016294845	0.0104512
E9WNG1	TY-2482_chromosome	-	3291008	3291330	756.0865332	744.4905213	724.1814923	386.3716088	602.7105709	367.5615649	0.709324899	2.848621875	2.426317
B7L8B8	TY-2482_chromosome	-	3291488	3291976	103.7808896	127.4013955	108.14939	58.05180027	57.39220186	38.66092993	1.032345826	3.626721963	3.6138286
B7L8B9	TY-2482_chromosome	+	3292151	3294169	404.4563039	450.1365946	422.5025655	488.6826865	413.9756476	511.5712558	-0.16610527	0.329715254	0.2479763
B7L8C0	TY-2482_chromosome	-	3294222	3295703	2299.983988	1796.543609	1758.550418	2377.991189	2125.795264	2592.836152	-0.239064106	0.420844824	0.3206874
B7L8B6	TY-2482_chromosome	-	3295840	3297102	4331.830134	3375.704632	3460.056237	5841.46522	5805.185191	6374.010568	-0.643135069	1.185276158	0.9622522

A1AHV1	TY-2482_chromosome	-	3297230	3297619	6267.668047	6084.300772	6027.207791	4676.140376	6442.40964	4977.193674	0.205820794	0.210671605	0.155876
B7L8C4	TY-2482_chromosome	+	3297889	3299145	4215.019286	3601.948502	3691.233532	11746.6243	11455.65114	14608.16454	-1.65783242	4.783639052	4.1762173
B7L8C1	TY-2482_chromosome	+	3299158	3299373	160.8128549	157.2440072	153.0791098	137.5138512	157.4210294	185.1271281	0.016973618	0.038383242	0.026127
B7L8C6	TY-2482_chromosome	+	3299388	3300488	1258.767384	1082.921815	1154.69447	1002.523604	1150.330162	1160.260062	0.130360298	0.149610098	0.1088355
B7L8C7	TY-2482_chromosome	+	3300503	3301546	1116.535664	1181.419259	1002.613849	1313.262757	1392.373258	1461.531151	-0.357341866	1.014702274	0.8148999
B7L8C8	TY-2482_chromosome	+	3301605	3302732	1127.686065	1080.162122	1228.221958	1947.019324	1903.766506	2290.180757	-0.782295774	4.3952383	3.8257978
B7L8C5	TY-2482_chromosome	+	3302732	3303991	1524.101139	1496.762797	1496.706152	2063.454812	1785.422155	2237.601259	-0.416203039	1.44573368	1.1883053
B7L8D0	TY-2482_chromosome	+	3303994	3305058	1505.340876	1550.608129	1540.315641	1663.351547	1508.762454	2004.570715	-0.146180968	0.388783459	0.2951676
B7L8D1	TY-2482_chromosome	+	3305080	3305958	1334.990057	1206.251726	1257.698544	1486.184501	1341.343797	1568.045867	-0.183674919	0.514405211	0.3957644
B7L8C9	TY-2482_chromosome	+	3305939	3306610	852.5250629	832.3777811	860.9600473	782.2946879	687.0256711	755.139824	0.196600443	0.51312844	0.3948348
B7L8D3	TY-2482_chromosome	+	3306618	3307745	1231.547422	1308.615427	1376.722471	1676.7329782	1459.648862	1657.598855	-0.291694431	0.812166221	0.6462786
B7L8D4	TY-2482_chromosome	+	3307750	3308997	846.3637165	952.6907226	958.7595342	785.4279744	736.1795044	824.7686443	0.228210015	0.64897343	0.5070876
B7L8D5	TY-2482_chromosome	+	3308997	3310073	600.457005	605.5654441	626.6091867	560.8464711	573.3504306	530.3364715	0.136200019	0.306712385	0.229771
B7L952	TY-2482_chromosome	+	3310073	3311422	519.748869	527.8332428	496.3674403	432.3423286	536.0587033	549.7196315	0.049537978	0.04186485	0.0287268
B7L953	TY-2482_chromosome	+	3311428	3312165	497.2696192	537.5526162	473.8578267	600.77022	616.996693	652.4454637	-0.330206645	0.891934897	0.7128837
B7L954	TY-2482_chromosome	+	3312359	3313741	462.0592423	504.357622	477.9623811	277.4946888	290.2580556	354.8308599	0.66543187	2.757039278	2.3459122
argX	TY-2482_chromosome	+	3313847	3313923	654.9992799	821.6017089	574.59028	420.9638515	781.1722137	425.5214728	0.242912669	0.756412202	0.5989471
hisR	TY-2482_chromosome	+	3313981	3314057	657.1326626	797.2727962	720.2714578	738.3859597	1131.442863	705.660733	-0.287259524	0.596507934	0.4636407
leuQ	TY-2482_chromosome	+	3314078	3314164	640.0720405	732.6959528	601.8638319	530.2034654	802.8979504	518.7934142	0.040093661	0.166984605	0.1228523
proM	TY-2482_chromosome	+	3314207	3314283	134.7657938	128.4844134	108.596059	115.8670775	165.7965842	118.6939604	-0.123069572	0.212630417	0.1576189
B7L956	TY-2482_chromosome	+	3314430	3315662	51.64206829	55.6880529	43.26024152	102.3453959	80.04923794	67.53952814	-0.842337513	2.724354674	2.318347
ryiA	TY-2482_chromosome	+	3316335	3316506	7463.410775	6938.667997	2506.780549	410.8132074	2665.788835	368.5844759	2.164450361	4.091169096	3.543086
B7L958	TY-2482_chromosome	-	3316592	3317785	3325.730671	3009.352021	3160.511244	6972.498699	6085.424944	7385.654447	-1.077882193	2.480498754	2.0987623
B7L955	TY-2482_chromosome	-	3317791	3318999	4430.967357	4219.715104	4389.24187	6625.792901	5710.485058	6809.462573	-0.538282282	0.853063257	0.6789115
B7L960	TY-2482_chromosome	-	3319024	3319761	2289.101954	2292.661078	2323.365829	2639.590244	2051.126231	2649.444854	-0.088018727	0.096664536	0.0710902
B5YY51	TY-2482_chromosome	-	3319761	3320714	4152.706416	4096.00008	4336.494337	4770.580058	3945.875864	4905.730457	-0.099207921	0.121285906	0.0890958
D7XDC1	TY-2482_chromosome	-	3320855	3321058	2042.258756	2286.292106	1998.349944	497.9528923	730.0283882	565.8826683	1.800581321	15.71543572	14.547452
B7L961	TY-2482_chromosome	+	3321086	3323629	8766.128369	8773.462878	8985.156059	5227.350941	5572.245439	5763.613382	0.699906817	1.11781223	0.9039151
B7L964	TY-2482_chromosome	-	3324043	3325365	90.66048802	87.07538223	69.58728611	72.23539209	81.07324806	60.86106997	0.152837077	0.433875637	0.3310737
B7L965	TY-2482_chromosome	-	3325365	3326870	111.4702074	103.6163366	108.2584096	45.90189887	60.22828515	33.44219513	1.193040882	6.837142634	6.0921402
B7L962	TY-2482_chromosome	+	3328112	3328312	1175.4693	1267.138796	1278.276813	701.6798125	937.4898396	739.5810691	0.64970145	2.724004523	2.318288
B7L969	TY-2482_chromosome	+	3328352	3329173	1915.730807	2232.667398	2227.086634	2027.341269	1946.576165	1993.177275	0.074713779	0.141069409	0.1034192
B7L970	TY-2482_chromosome	+	3329173	3329877	1232.238449	1349.805771	1451.404238	1330.043662	1086.497196	1320.738587	0.111078724	0.223816605	0.1657703
B7L968	TY-2482_chromosome	+	3329877	3330770	1262.309755	1206.332938	1354.959783	1222.961357	1027.354871	1224.70688	0.163255275	0.302939188	0.2625655
B7L971	TY-2482_chromosome	+	3330773	3331486	622.1290455	611.1474345	678.8826009	709.847251	665.1816807	787.8262642	-0.139569113	0.425998795	0.3251217
B7L973	TY-2482_chromosome	+	3331573	3333732	1106.889353	1015.497816	1040.463015	1621.422	1419.577088	1832.321613	-0.590474233	2.564449853	2.1734481
B7L974	TY-2482_chromosome	-	3333885	3334646	61.29429133	66.3362689	57.93533769	55.74929925	46.43741083	28.28669117	0.390467946	1.267416629	1.0329526
B7L972	TY-2482_chromosome	+	3335016	3335963	483.2403932	390.7652444	474.8382959	906.3265635	905.5123332	840.8359708	-0.929578923	5.87215908	5.1868643
B7L982	TY-2482_chromosome	-	3338672	3339556	219.098449	211.7500613	225.1928139	225.0509037	278.5877036	217.3438523	-0.123308668	0.291494061	0.217942
D3H4V8	TY-2482_chromosome	-	3339611	3340093	63.60606609	50.74135614	68.23962043	77.61897028	72.7939867	68.57272039	-0.210345856	0.598203538	0.4649386
B7L984	TY-2482_chromosome	+	3340240	3341106	473.3117393	511.9720831	469.308689	1023.759064	1117.593676	980.3149205	-1.13290269	7.709634072	6.9124198
B7L985	TY-2482_chromosome	+	3341242	3343068	679.8790049	623.9266894	633.0800839	993.6289897	924.5592993	1031.334755	-0.589118969	2.777425899	2.3632749
B7L983	TY-2482_chromosome	+	3343135	3343752	809.1496159	768.3421974	839.2517576	835.0279105	1127.732074	781.8843436	-0.166321945	0.439631724	0.3355015
B7L987	TY-2482_chromosome	-	3343820	3344437	181.77279	160.8481676	183.6393635	160.9760127	167.5001065	135.830948	0.193702795	0.437003792	0.3334778
B7L988	TY-2482_chromosome	+	3344548	3345567	1044.850818	902.7332616	996.3095783	797.105113	921.0457269	785.6053168	0.267569636	0.646069816	0.5048408
B7L986	TY-2482_chromosome	+	3345578	3346375	421.6496445	485.7492182	429.0220826	661.8869944	642.4504081	726.0478949	-0.629823706	2.474309346	2.093031
B7L991	TY-2482_chromosome	-	3347244	3348194	110.6663082	101.4795206	117.669679	201.5435514	204.7542885	207.8546946	-0.856546849	5.145691567	4.1524704
B7L992	TY-2482_chromosome	+	3348312	3350570	616.1593581	643.7435884	623.2133345	2172.102534	1508.68827	2179.677983	-1.652501415	12.96178432	11.88677
B7L989	TY-2482_chromosome	-	3350615	3351427	787.3410849	867.5875354	838.496559	670.4734956	612.3883421	739.1382132	0.299348736	0.898966426	0.7181873
B7L994	TY-2482_chromosome	+	3351689	3352447	3825.117312	3910.284604	4051.925822	11881.95208	11836.07856	13945.23317	-1.6455153	4.640844032	4.0481969
B7L995	TY-2482_chromosome	+	3352591	3354015	598.2680865	590.0669013	591.533478	849.8731921	768.9365173	848.5121161	-0.470529582	1.741511777	1.4489625
B7L996	TY-2482_chromosome	+	3354113	3354865	1821.654146	1806.265104	1992.749327	2849.59585	2586.30899	2860.078704	-0.542240675	0.982790929	0.7882328
B7L993	TY-2482_chromosome	+	3354882	3355484	1476.284968	1450.118866	1361.898705	2034.568383	1770.867298	2177.114511	-0.480569997	1.722263613	1.4321338
B7L998	TY-2482_chromosome	+	3355484	3357121	3072.017601	3363.41876	3149.910658	3707.726258	3934.159932	3945.496104	-0.286783612	0.349272061	0.2636101
B7L997	TY-2482_chromosome	+	3357203	3357469	1906.833895	2040.130873	2152.511876	2206.677188	2276.085339	1907.94812	-0.085442383	0.094373749	0.0691021
B7L9A0	TY-2482_chromosome	+	3357476	3357988	2914.366881	2748.950711	2848.896804	2682.059985	2560.84759	2748.258451	0.107846935	0.099351824	0.0731715
B7L9A1	TY-2482_chromosome	+	3357994	3358767	2028.902449	1955.449259	2002.473914	2222.351478	2293.352943	2106.449961	-0.144577685	0.22319114	0.1652536

B5YY88	TY-2482_chromosome	+	3358800	3359591	701.5385176	634.5629876	686.6681515	595.6262124	583.3209605	605.1621185	0.209092923	0.438532457	0.3345231
B7L9A3	TY-2482_chromosome	-	3359594	3360079	372.431564	388.3401956	342.4424402	329.7593861	344.0553702	277.9376521	0.160073868	0.521809926	0.4015404
B7L9A4	TY-2482_chromosome	+	3360246	3361736	4760.733478	4611.198096	4833.612637	4262.071212	4296.338815	4448.048593	0.146665933	0.137225656	0.1007155
B7L999	TY-2482_chromosome	+	3361785	3362483	2349.591623	2531.756996	2498.346723	2393.085176	2392.519167	2381.298116	0.030323655	0.044209403	0.0304699
B7L9A6	TY-2482_chromosome	-	3362681	3363841	386.4683526	439.8084875	419.2510825	146.8820548	152.8563473	176.0403911	1.391965089	10.54106754	9.5850133
B7L9A7	TY-2482_chromosome	-	3363854	3366040	159.7912615	185.2616793	196.3064505	135.8340811	89.04346026	110.5677754	0.64881554	2.95592383	2.5200741
B7L9A5	TY-2482_chromosome	+	3366230	3367558	5109.244772	4719.886227	5290.58174	6797.889016	5559.389137	7076.460713	-0.327322557	0.467588898	0.3576714
B7L9A8	TY-2482_chromosome	+	3367561	3368172	1582.500882	1453.455936	1514.545528	1671.059002	1269.404198	1516.873312	0.027892859	0.052735986	0.0374348
B7L9A9	TY-2482_chromosome	+	3368214	3369662	1218.154797	1254.496757	1274.945823	1200.535025	1082.89494	1236.556748	0.093795534	0.184197632	0.1359614
B7L9B1	TY-2482_chromosome	+	3369677	3370219	438.7432016	554.7260163	477.249478	454.1818288	549.7465675	485.5465581	-0.064037017	0.033621922	0.022929
E9WNY3	TY-2482_chromosome	-	3370513	3370746	125030.0485	571767.0716	245910.4302	41967.46956	65620.97007	122343.8549	1.79541132	3.667151281	3.1545537
rrsD	TY-2482_chromosome	+	3370600	3372141	865398.0898	3837952.774	1868662.283	203399.7662	240034.9005	767540.1276	2.304985785	4.442199896	3.868858
Q57H85	TY-2482_chromosome	+	3371721	3372038	210485.6041	951133.5176	430994.1495	14343.23119	18093.26351	87718.88406	3.649642091	7.553973966	6.7679489
ileT	TY-2482_chromosome	+	3372210	3372286	531.8621529	629.9878617	321.8993391	140.8522597	425.7005969	110.3662824	0.978134641	2.958527284	2.5224179
alaT	TY-2482_chromosome	+	3372329	3372404	307.0298335	296.806609	163.4424168	111.2412158	357.4513867	94.53508316	0.35130805	0.698463886	0.548724
rrIE	TY-2482_chromosome	+	3372588	3375491	468228.1144	4821906.706	1295577.736	1083661.839	896636.9889	4771073.774	-0.427694749	0.019242194	0.0128194
Q1R3T8	TY-2482_chromosome	-	3372814	3373116	86299.30757	712273.5604	230632.3062	297285.3109	244321.1453	1188996.816	-1.070607303	0.630126298	0.4913952
C1HUN3	TY-2482_chromosome	-	3374174	3374377	28095.7086	341044.6551	90701.93173	80848.05984	67081.30132	386681.8987	-0.613310078	0.127295367	0.0932622
C1HUN1	TY-2482_chromosome	-	3374454	3374906	89402.80596	1001663.439	244397.9064	70891.9202	42526.2337	478984.5705	0.821859105	0.955813038	0.765606
C1HUN0	TY-2482_chromosome	-	3374910	3375266	74664.40306	764792.4609	206375.0804	48152.77008	31237.04634	336674.5066	1.026007534	1.174283275	0.9541124
Q1R8D8	TY-2482_chromosome	-	3375470	3375761	4999.765564	23755.3084	2848.495552	17658.94832	144444.6772	15249.60614	-3.223084996	3.104145618	2.651086
rrfC	TY-2482_chromosome	+	3375585	3375704	3693.571129	13489.3735	158.1061084	14790.33875	141041.2583	5614.100025	-4.061966094	3.073541368	2.6250491
C8UKB4	TY-2482_chromosome	-	3375810	3376334	159.3001291	142.8510315	167.190899	107.5381945	121.0754923	111.8871301	0.509144154	1.793498983	1.4914869
B7L9B3	TY-2482_chromosome	-	3376319	3376900	251.2240481	264.9395991	248.815134	139.0296147	116.4084977	139.3049193	0.9589501	5.0934244	
B7L9B4	TY-2482_chromosome	+	3376970	3377236	1456.711423	1624.298838	1410.065173	271.3169579	498.1712552	241.482912	2.104643751	18.30665551	17.065611
B7L9B0	TY-2482_chromosome	+	3377316	3378299	1347.631182	1329.154555	1282.064745	755.4307301	1056.711512	856.5910509	0.585473488	2.137430322	1.793215
B7L9B6	TY-2482_chromosome	+	3378319	3378942	2554.562749	2609.356992	2621.13377	1831.16375	2745.8493	1835.685397	0.283731324	0.367658177	0.2782714
B7L9B7	TY-2482_chromosome	+	3379100	3380527	76.31363891	72.48440088	73.23060363	63.00178353	51.89369556	32.24355445	0.5145501	1.777030329	1.4777121
B7L9B8	TY-2482_chromosome	-	3380574	3381503	71.06168663	76.3981103	62.45147	141.7605102	169.3821172	124.0402003	-1.110255495	6.066513311	5.3714273
B7L9B5	TY-2482_chromosome	+	3381867	3384650	4706.913734	4705.921238	4478.248032	5904.30461	3965.81278	5933.095192	-0.199147727	0.205758454	0.1520119
spf	TY-2482_chromosome	+	3384801	3384909	100.4043906	101.7491756	70.07877093	229.2814298	107.1778006	122.8515331	-0.927379339	2.416711481	2.043373
A1AI47	TY-2482_chromosome	-	3385038	3385685	1659.381281	1666.949701	1774.151417	1700.393229	1578.004222	1565.690568	0.072146691	0.146691725	0.1071568
csrC	TY-2482_chromosome	+	3385938	3386182	6834.07402	11040.81915	7472.835055	2588.730573	5431.663007	2334.756466	1.144240502	2.612910336	2.216253
B7L9B9	TY-2482_chromosome	+	3386249	3386755	958.1081689	866.0742829	868.0851369	590.3874024	567.8405326	601.1950536	0.628039164	2.70789516	2.3040632
B7L9C1	TY-2482_chromosome	+	3386947	3388317	1848.680753	1762.362577	1825.542459	1320.03455	1187.543351	1394.379822	0.498253403	1.763231665	1.466557
B7L9C2	TY-2482_chromosome	-	3388735	3390141	820.3455427	819.3370713	835.866659	1688.155534	1822.813862	2042.888699	-1.130617954	7.713482954	6.9156717
B7L9C3	TY-2482_chromosome	-	3390156	3391202	596.104399	551.78304	562.4523158	899.306388	920.880769	1287.330238	-0.789462869	4.513088717	3.931111
B7L9C4	TY-2482_chromosome	-	3391491	3392897	5677.777895	5028.567671	4888.175695	12906.50014	11835.12472	15367.30208	-1.325728525	3.208572424	2.745403
B5BJ09	TY-2482_chromosome	-	3392879	3393298	1548.932218	1475.667799	1274.567124	2151.97921	2115.828155	2373.196079	-0.633175243	2.00515956	1.6762277
B7L9C6	TY-2482_chromosome	+	3393270	3395090	11818.12885	11231.06409	11605.59382	21691.03767	17713.1108	24187.20783	-0.847480935	1.480004884	1.2182132
B7L9C7	TY-2482_chromosome	+	3395310	3396017	86.76443946	94.2695418	75.62621578	218.6821222	157.3547294	152.9634378	-1.149916793	5.99746893	5.3047343
B7L9C5	TY-2482_chromosome	+	3396028	3397005	97.78767611	122.1251575	102.1985065	241.789283	185.6293519	138.7985146	-0.954943458	3.594416486	3.0897991
B7L9C9	TY-2482_chromosome	+	3397110	3398372	87.18574967	112.4872391	111.7602175	125.7350587	115.591231	93.80590969	-0.175461497	0.217998	0.1609294
B7L9C8	TY-2482_chromosome	-	3398489	3399274	587.7499877	575.007543	625.3565224	485.4273109	483.2617111	422.5711594	0.359641603	1.16016308	0.9425126
B7L9D1	TY-2482_chromosome	-	3399317	3400249	133.7589371	165.3469956	122.4539691	93.42607354	88.27962884	77.87351318	0.590329418	3.022040242	2.5793882
B7L9D0	TY-2482_chromosome	+	3401286	3402170	31.60724144	22.09746472	27.01938035	33.81485795	31.73892431	54.54493302	-0.440691879	1.287289415	1.0506977
B7L9D4	TY-2482_chromosome	+	3402206	3403213	62.1978532	54.67495774	54.66570006	54.9301844	58.21508373	68.15867022	-0.035196085	0.112869432	0.0825254
B7L9D5	TY-2482_chromosome	+	3403286	3404716	80.41791241	55.67247851	58.48784257	51.13280762	56.45967001	50.11508031	0.347095474	0.715078943	0.562644
B7L9D7	TY-2482_chromosome	+	3406100	3407041	82.04169287	120.2736982	77.49078332	70.47297871	96.54589046	89.3800961	0.030665786	0.191395937	0.141217
D3H517	TY-2482_chromosome	+	3407164	3407781	564.3522924	704.518285	649.0291517	547.629975	558.7600767	565.7007777	0.161132669	0.072642642	0.3618093
B7L9D9	TY-2482_chromosome	+	3407778	3408647	703.6365418	797.2548368	671.2232888	533.7710728	525.9608079	610.2104025	0.351678649	1.207897115	0.9805582
B7L9D6	TY-2482_chromosome	+	3408647	3409081	463.4603382	547.7000081	509.6909425	610.2271213	552.358624	574.9698407	-0.236064309	0.470980896	0.3602703
B7L9E1	TY-2482_chromosome	+	3409081	3410067	812.0201713	883.2215089	875.5070993	1229.367036	1120.199345	1332.508117	-0.517431896	1.96899559	1.6441037
B7L9E2	TY-2482_chromosome	-	3410137	3411117	121.8543034	130.7962587	118.0430583	174.6239376	177.4544366	178.9229208	-0.541200558	2.099552866	1.7597297
B7L9E0	TY-2482_chromosome	+	3411271	3411579	72.18087861	92.44388674	102.7056115	59.94276657	77.60610661	25.96393863	0.623651947	1.910924951	1.5945938
B7L9E4	TY-2482_chromosome	+	3411583	3411870	174.1796687	182.7141585	178.2350446	101.8208267	211.5673074	85.029502	0.406248115	0.989099482	0.7934976
B7L9E7	TY-2482_chromosome	-	3413472	3414398	2291.344575	2208.173431	2414.591876	2778.580107	2535.329232	3016.491376	-0.235236864	0.353875764	0.2673183

B7L9E8	TY-2482_chromosome	-	3414398	3415030	2412.434757	2473.038016	2601.422823	1878.782318	1664.371578	2253.208554	0.405503413	0.582583436	0.452283
B7L9E9	TY-2482_chromosome	-	3415030	3415929	3638.971405	3457.504397	3779.282201	2299.845685	1707.972112	2845.004423	0.72351772	1.166607665	0.9481711
B7L9E5	TY-2482_chromosome	-	3415945	3418992	15496.08077	13503.60091	14902.18711	7427.524115	5167.94874	9807.033165	1.051227738	1.735114966	1.4431253
B7L9F1	TY-2482_chromosome	+	3419186	3420016	382.7393965	404.6651758	438.5788947	158.3623395	136.4304279	160.3899813	1.438913041	11.79816442	10.783257
B7L9F0	TY-2482_chromosome	-	3421265	3423016	34.32143303	34.01892485	38.4228215	62.73796997	41.72435128	57.77459096	-0.598272895	1.720850117	1.4309059
B7L9F4	TY-2482_chromosome	-	3423013	3424080	47.95297954	41.93441716	44.1743994	63.55324622	35.30873234	56.41668261	-0.214009948	0.365586568	0.2765503
B7L9F5	TY-2482_chromosome	-	3424073	3425521	19.41494972	20.46546678	19.08042826	58.98859215	35.34536404	47.3888225	-1.315204756	4.876996484	4.2623145
B7L9F8	TY-2482_chromosome	-	3426618	3427439	15.07079237	13.1015597	11.70027018	40.35084177	29.02664346	35.52412489	-1.413787213	4.945302015	4.3269541
B7L9F3	TY-2482_chromosome	-	3427684	3428940	20.85033333	14.9624334	28.19810416	47.10683591	28.98945665	38.18184103	-0.751944919	2.223866788	1.8713749
B7L9G0	TY-2482_chromosome	-	3428940	3430406	26.25972224	27.53987022	20.1422159	37.86113849	20.76893229	34.0583132	-0.398308305	0.542105381	0.4184335
B7L9G1	TY-2482_chromosome	+	3430694	3431527	34.54296402	35.16191661	24.67303868	39.01539312	33.65685259	29.21918302	-0.205734462	0.153636724	0.1124438
B7L9G2	TY-2482_chromosome	+	3431514	3432449	101.52005	122.6026519	110.8830157	113.6706337	134.8380855	80.87004056	-0.056238718	0.021505236	0.0145993
B7L9F9	TY-2482_chromosome	-	3432452	3433483	84.66162495	61.43435671	83.35809753	54.68168724	55.56820002	39.89174291	0.65143059	2.048558278	1.7139066
D3GRW3	TY-2482_chromosome	+	3433762	3434385	12383.58065	10858.1327	11758.77778	17188.93654	17588.52978	20035.25459	-0.592683416	0.955718856	0.765606
C6V0W7	TY-2482_chromosome	+	3434648	3435628	88.25415476	96.76661433	76.93938131	70.46075718	56.33784981	67.04354538	0.37273638	1.266340168	1.0320394
D3GRW5	TY-2482_chromosome	+	3435750	3436451	747.7392054	826.1024368	755.8645962	565.2485011	629.7875436	602.5628845	0.355939823	1.213958199	0.9859763
B7L9G7	TY-2482_chromosome	-	3436563	3437933	2342.162299	2344.411286	2498.428442	2329.317646	2014.730897	2788.643686	0.051614922	0.010301408	0.0067663
B7L9G3	TY-2482_chromosome	-	3437933	3438628	1790.952775	1860.000588	1982.82276	2065.895187	1949.246514	2480.868103	-0.167519614	0.357290374	0.2700027
B7L8D2	TY-2482_chromosome	+	3438778	3439275	1525.680673	1506.480208	1326.792913	528.6999998	852.9290316	627.7409856	1.123640036	6.372787559	5.65545
B7LA12	TY-2482_chromosome	+	3439427	3440326	1386.40002	1422.0971	1494.206636	1274.049531	1241.290576	1268.263962	0.191262852	0.442332586	0.3378394
B7LA13	TY-2482_chromosome	+	3440510	3441469	13783.33823	13665.32007	15073.98393	7406.820827	6389.423003	6451.921991	1.066708452	2.155105711	1.8087832
E1IU15	TY-2482_chromosome	+	3441512	3441728	1055.279752	1014.925618	957.1631597	704.5958884	781.7996774	658.0445906	0.482191436	2.021851739	1.6904777
B7LA14	TY-2482_chromosome	+	3441792	3442778	298.4672667	263.791656	291.1983904	64.83331605	42.64873484	52.68354679	2.408306677	27.29680559	25.860176
B7LA15	TY-2482_chromosome	+	3442888	3443640	279.0204231	280.2469146	241.3570608	124.0936422	115.5221536	132.7344633	1.08527005	7.150214236	6.3857383
B7LA16	TY-2482_chromosome	-	3443701	3444465	13142.47413	12763.84775	14003.05012	11927.35532	12385.8053	12325.99638	0.150029662	0.12128046	0.0890958
B7LA11	TY-2482_chromosome	-	3444576	3445172	258.5812472	307.8961046	271.9179866	159.1091951	139.1898862	144.7934255	0.85933036	5.165964669	4.5311047
B7LA18	TY-2482_chromosome	+	3445273	3445710	107.4004252	123.8820452	143.6435941	43.90111683	51.02774976	40.99511271	1.469363227	10.50142525	9.5462301
B7LA19	TY-2482_chromosome	+	3445925	3446221	474.531681	606.9667559	606.9590195	240.5760163	250.3532862	172.9064611	1.274727055	8.966104962	8.089232
B7LA20	TY-2482_chromosome	+	3446251	3446676	850.8633958	917.1352535	985.9208551	582.5204489	619.796409	525.1884692	0.664351325	3.131514464	2.6760173
B7LA17	TY-2482_chromosome	-	3446687	3447430	1842.694249	1726.546398	1858.612931	1422.987958	1452.421787	1556.25167	0.328089944	0.83182351	0.6620145
B7LA22	TY-2482_chromosome	-	3447530	3448537	909.4158314	827.799454	911.188906	1961.031041	1668.019833	2107.357833	-1.076528832	7.01465753	6.2605679
B7LA23	TY-2482_chromosome	-	3448676	3450181	601.4319797	561.4564043	496.177651	30289.66762	23013.23029	32223.01414	-5.694582767	29.47275186	27.983668
B7LA24	TY-2482_chromosome	-	3450207	3451049	292.7127212	228.0402529	238.150172	5266.859435	4571.069017	6247.415431	-4.342575975	25.71583833	24.299531
B7LA21	TY-2482_chromosome	+	3451475	3451717	2780.283409	3229.164576	3002.058139	2499.654959	4270.310871	2187.272911	-0.032439485	0.008098756	0.0052916
A1A1A4	TY-2482_chromosome	+	3451862	3452365	6133.076825	5996.505241	5699.658718	2275.85127	3480.321601	1945.137625	1.189625006	2.786080942	2.0501172
B5YZ70	TY-2482_chromosome	-	3452386	3453321	272.9718377	275.4382148	258.6781268	412.9729547	445.0443106	415.8153583	-0.669070062	3.009545896	2.5689983
B7LA28	TY-2482_chromosome	-	3453379	3454707	2542.873361	2154.331804	2182.566526	4451.948512	4073.32533	4684.753487	-0.912394858	2.030472917	1.6978727
B7LA29	TY-2482_chromosome	-	3454720	3455247	777.1574467	723.8621714	658.6428678	1529.019296	1315.862163	1468.194718	-1.015156815	5.802796612	5.1220879
B7LA30	TY-2482_chromosome	-	3455343	3456299	650.6014152	649.2501533	649.6419501	933.3714638	783.4665028	912.9504555	-0.437105127	1.573538172	1.3015824
B7LA31	TY-2482_chromosome	-	3456394	3457416	488.2001746	532.9187855	530.2144826	1061.317379	922.7028628	1119.389173	-1.003887086	6.485132022	5.7628025
B7LA32	TY-2482_chromosome	-	3457575	3459770	313.4337835	286.5298855	293.0710293	428.7711314	411.2947539	465.5671616	-0.521156185	2.156860078	1.8103263
B7LA33	TY-2482_chromosome	+	3459973	3460182	14235.96459	13229.77805	12995.26689	3796.288372	8668.717531	4059.384014	1.31537114	2.608064433	2.2128833
B7LA34	TY-2482_chromosome	+	3460345	3464526	391.9841622	333.6068295	377.6996103	411.550947	423.1505317	456.3961345	-0.179525984	0.589261732	0.4576748
Q0H058	TY-2482_chromosome	-	3464826	3465615	101.3831919	66.47592961	76.38842247	78.27882953	59.14884169	37.55855815	0.448678841	1.219418863	0.990632
C8UKJ8	TY-2482_chromosome	+	3465538	3465828	63.76185331	52.38354997	53.31412663	35.03311523	30.00649967	27.83136976	0.857869594	3.326112209	2.8488958
B5YZ79	TY-2482_chromosome	-	3465763	3466367	144.330403	156.161489	129.7956958	93.96530528	84.58087255	94.66015885	0.611504074	2.954856167	2.5192733
B7LA39	TY-2482_chromosome	-	3466430	3466744	490.5050865	515.0043836	506.3863601	219.1649342	263.0978165	213.3573641	1.109366847	7.241920192	6.4724363
B7LA40	TY-2482_chromosome	+	3467021	3468178	285.7416879	270.7533031	265.9626952	512.1704422	455.8357613	594.2992156	-0.899490284	4.971122595	4.3507943
B7LA41	TY-2482_chromosome	+	3468184	3470613	1005.223397	902.2200989	915.6383811	2177.767332	1848.212011	2309.985814	-1.143246954	7.69367456	6.8982463
B7LA42	TY-2482_chromosome	+	3470965	3471852	77.0153028	79.58661025	73.8287052	214.1834867	180.095247	222.1571448	-1.431574283	11.06346364	10.884454
B7LA43	TY-2482_chromosome	+	3472184	3474361	3566.427084	3547.077202	3565.244518	4651.001141	3909.472996	4953.038352	-0.329531519	0.450458206	0.3438569
D3GS01	TY-2482_chromosome	+	3474425	3475360	394.9774376	336.1732464	379.6757198	251.4254863	242.9335855	280.0303708	0.576319918	1.991969779	1.6651943
B7LA45	TY-2482_chromosome	-	3475393	3476007	62.04144184	66.45106268	59.27826395	47.32587717	53.78640206	35.95238968	0.394006922	1.192840342	0.9680636
B7LA46	TY-2482_chromosome	-	3476285	3477385	2181.430798	2002.609104	2342.052679	508.4058855	433.0946831	519.5149827	2.19964634	22.9828467	21.624531
B7LA47	TY-2482_chromosome	-	3477399	3478058	190.1861696	148.392949	166.978149	147.4037506	108.1687105	139.3399378	0.390505324	1.092962983	0.8827871
B7LA48	TY-2482_chromosome	-	3478073	3480571	127.8893946	119.2352476	130.1256014	206.8231664	141.8503107	156.7581193	-0.446689712	1.37897816	1.1305784
B7LA51	TY-2482_chromosome	+	3482345	3484639	160.359271	122.4247731	127.2081175	158.1280695	163.7962208	173.5597193	-0.2227558	0.728866446	0.5739917

B7LA52	TY-2482_chromosome	+	3484608	3485483	39.77565772	29.83679089	37.00276945	54.1403982	40.86578654	47.3956965	-0.379437343	0.944591963	0.7559508
B7LA50	TY-2482_chromosome	-	3485819	3486667	135.5222511	123.7913456	112.6360656	62.48985094	46.27718811	69.38850145	1.067983848	6.191309326	5.4866885
B7LA55	TY-2482_chromosome	-	3486885	3488615	1483.758149	1406.83682	1428.697075	2038.93684	2006.600759	2441.447099	-0.548606261	2.369859894	2.0008696
B7LA56	TY-2482_chromosome	-	3488801	3491449	5302.98387	5100.298269	4956.921098	7761.78544	5942.448492	9801.955672	-0.576286909	0.936057929	0.7491762
B7LA57	TY-2482_chromosome	-	3491804	3492952	539.2534737	482.7250767	534.848618	742.0793805	618.705348	859.9917519	-0.45849613	1.838684475	1.5313283
B7LA58	TY-2482_chromosome	+	3493106	3494107	196.673876	220.0774451	171.3019173	188.8483611	197.4349483	240.3904991	-0.114202072	0.17996518	0.1329795
C6V122	TY-2482_chromosome	+	3494118	3494891	172.8658396	159.9835816	152.998131	197.7942789	139.0529409	227.0869624	-0.194343137	0.480526263	0.3677537
B7LA60	TY-2482_chromosome	+	3494955	3496325	424.1295061	399.4215008	378.1280691	453.0776788	389.3834272	533.7206807	-0.173159823	0.447389967	0.3419274
B7LA61	TY-2482_chromosome	+	3496826	3498037	64.2028178	55.92906765	81.00636027	87.87694164	71.75054046	115.181039	-0.332378606	1.189980892	0.9658424
B7LA59	TY-2482_chromosome	+	3498107	3499387	76.9534659	68.50314574	90.79075445	86.00826396	59.8699376	112.4367785	-0.02763048	0.207515681	0.1532595
B7LA63	TY-2482_chromosome	+	3499641	3500555	3984.409245	4175.236174	4105.984889	4861.742731	4349.054664	5228.039485	-0.233309652	0.282108953	0.2106987
B7LA64	TY-2482_chromosome	-	3500544	3501941	3222.386787	3379.131256	3201.390887	1662.872273	1590.748322	1808.674496	1.030066032	2.396955018	2.0249632
B7LA62	TY-2482_chromosome	+	3502218	3502919	1726.841415	1543.908364	1678.339207	1460.84573	2041.380687	1555.357216	-0.04366074	0.132976254	0.0972348
B7LA66	TY-2482_chromosome	+	3502922	3503278	1269.801608	1221.624332	1331.136588	1600.26553	2028.661673	1422.617375	-0.394807274	1.239045402	1.0081585
B7LA67	TY-2482_chromosome	-	3503324	3504421	663.3640804	644.1605027	635.7241566	657.9024226	750.8620698	640.8955425	-0.078270505	0.155487839	0.1136667
B7LA68	TY-2482_chromosome	+	3504790	3506631	1742.294355	1957.127204	1916.704306	3202.911004	2617.180159	3514.986502	-0.736953391	1.419258038	1.1659413
B7LA65	TY-2482_chromosome	+	3506579	3507433	1313.831165	1398.598512	1422.211873	1224.673844	1215.972128	1350.973146	0.136838453	0.267599173	0.1996707
E9WNY3	TY-2482_chromosome	-	3507723	3507956	125074.9183	573286.7644	245633.1262	42065.98479	65636.44282	121608.4428	1.798318543	3.68206871	3.1672973
rrsD	TY-2482_chromosome	+	3507810	3509351	865398.0896	3837695.202	1870510.942	203058.2691	238961.0387	766553.4121	2.308755253	4.452629608	3.8778602
Q57H85	TY-2482_chromosome	+	3508931	3509248	212407.5554	948248.6797	431245.0411	14204.00192	17726.50884	87739.90234	3.659660027	7.56315791	6.7765511
ileT	TY-2482_chromosome	+	3509420	3509496	493.1231735	520.2031793	280.3063263	107.3527763	360.308935	56.65071396	1.158679559	2.984813575	2.546099
alaT	TY-2482_chromosome	+	3509539	3509614	331.8379488	277.6052407	180.0507847	110.6814236	338.3627658	74.92021943	0.528194178	1.019208184	0.8186514
rrfE	TY-2482_chromosome	+	3509798	3512701	527232.6051	5590787.245	1484140.8043	1244034.275	1009519.78	5520974.199	-0.429192422	0.017204285	0.0111677
Q1R3T8	TY-2482_chromosome	-	3510024	3510326	86299.30703	714256.9354	231444.3965	298677.5686	246750.9839	1194903.931	-1.07493586	0.634235439	0.4947178
C1HUN3	TY-2482_chromosome	-	3511384	3511587	47759.38479	600222.5632	149159.0555	121860.5676	101561.3321	598653.7123	-0.463095431	0.023218736	0.0155336
C1HUN1	TY-2482_chromosome	-	3511664	3512116	101405.621	1136481.658	280334.5013	81885.5086	47804.53145	556158.5129	0.800828845	0.922152983	0.736732
C1HUN0	TY-2482_chromosome	-	3512120	3512476	75283.61486	762963.6939	206830.6466	47935.39261	30772.00934	336385.0591	1.031870388	1.17749595	0.9566927
C5WBP6	TY-2482_chromosome	-	3512759	3513082	3567.89123	13651.30246	177.2410394	15960.25616	142124.216	5729.874841	-0.085863377	3.117071738	2.6622174
rrfC	TY-2482_chromosome	+	3512795	3512914	3564.152111	13640.98501	171.9623148	14966.99935	142087.8164	5668.040344	-4.086432739	3.103039295	2.6505195
B7LA70	TY-2482_chromosome	+	3513215	3514240	525.5739833	531.4524391	626.8763778	845.3212931	756.1980975	816.9871439	-0.498123144	2.014434936	1.6842837
B7LA71	TY-2482_chromosome	+	3514240	3515202	410.6635941	389.0670798	366.2394816	576.0117005	535.0710146	564.3971004	-0.531942084	2.065725849	1.7294259
B7LA72	TY-2482_chromosome	-	3515237	3516184	382.3380561	323.0106395	336.6018764	545.5164107	683.5735006	525.2241761	-0.727779669	3.532850553	3.0357705
B5Z075	TY-2482_chromosome	+	3516167	3516358	98.52408991	56.67791491	68.41253032	68.33068199	75.61201197	55.62739782	0.222286676	0.307614221	0.2304456
thrU	TY-2482_chromosome	+	3516546	3516621	685.9233103	701.8997333	517.7410392	454.2053347	1054.309357	495.3556822	-0.111515455	0.105252985	0.0776554
tyrU	TY-2482_chromosome	+	3516630	3516714	1182.30645	1269.047354	1106.331864	1237.182226	2376.494583	1360.844863	-0.498641224	1.378093486	1.1300308
glyT	TY-2482_chromosome	+	3516831	3516905	1571.567261	1367.649861	1092.791474	1506.566984	2720.494475	1467.529768	-0.515796662	1.392373688	1.1422847
thrT	TY-2482_chromosome	+	3516912	3516987	1265.663716	1066.890995	958.9323187	883.8994189	1644.792828	967.4498239	-0.066202698	0.144386636	0.1052812
B7LA73	TY-2482_chromosome	+	3517102	3518283	93913.71191	84286.69633	89461.80364	96755.51991	81416.75251	99480.03368	-0.026871621	0.045015346	0.0309937
B7LA69	TY-2482_chromosome	+	3518516	3518896	2888.204091	2787.215625	2718.07474	3408.942676	3683.918329	3461.453164	-0.327849676	0.451961527	0.3447972
B7LA75	TY-2482_chromosome	+	3518901	3519443	3211.989279	3104.194494	3138.715938	5304.288625	5767.04187	5150.787939	-0.776206795	1.465960726	1.2052494
A1AIF6	TY-2482_chromosome	-	3519554	3520552	80026.23473	77112.74191	81948.40717	59396.24659	56367.6421	60995.77962	0.455221195	0.51600494	0.3967384
D6JHU1	TY-2482_chromosome	-	3520673	3520864	17191.38832	15633.49698	16789.12901	15397.58372	14713.67624	15783.36986	0.139926494	0.107367354	0.0791635
B7LA78	TY-2482_chromosome	+	3521154	3521648	59110.74333	52988.19803	59227.77129	44991.62434	43423.99177	45417.63201	0.390417112	0.399348858	0.3031282
E1PAV1	TY-2482_chromosome	-	3521706	3522209	44551.78778	41911.72795	44182.93196	30784.62684	29896.97796	32379.81724	0.514069093	0.617635636	0.4820365
B7LA80	TY-2482_chromosome	+	3522403	3526428	41591.11739	38872.21424	40226.10081	94325.9129	62553.11159	92292.72668	-1.040100041	1.795738212	1.493183
B7LA76	TY-2482_chromosome	+	3526508	3530728	71812.73798	69959.4475	71001.63204	120929.9545	81027.17582	110507.5564	-0.568715532	0.699760578	0.5496175
B7LA82	TY-2482_chromosome	+	3530944	3531480	98.77912619	97.65411603	87.59994079	49.05171014	63.81909823	46.32723164	0.81216031	3.758481135	3.2364896
B7LA83	TY-2482_chromosome	-	3531896	3533026	61.90302815	73.87987925	67.99057905	114.6046021	59.88603006	72.65255683	-0.389371074	0.592849404	0.4607469
B5Z086	TY-2482_chromosome	-	3533026	3533838	58.10104571	37.47609051	35.20731284	62.99932856	50.83687984	77.17486615	-0.478782645	1.413593067	1.1614683
B7LA86	TY-2482_chromosome	-	3533982	3534734	36.68594381	40.17769306	30.05144704	57.62920504	34.428771227	48.63600544	-0.482809868	0.864878519	0.6894053
B7LA87	TY-2482_chromosome	-	3534730	3535362	26.19537766	29.79322985	21.48741442	38.0975528	24.38957145	50.65799413	-0.569110606	1.116567572	0.9028261
B7LA88	TY-2482_chromosome	-	3535365	3537257	109.2652913	91.57173545	109.0425653	143.2599787	114.5477411	153.6547177	-0.352053686	1.264448935	1.0303114
B7LA89	TY-2482_chromosome	-	3537493	3537966	289.981325	314.3764143	338.2307432	395.2065885	400.3948505	439.2621852	-0.367287496	1.254112726	1.0211839
B7LA85	TY-2482_chromosome	+	3538061	3538831	313.9965701	312.3290605	350.1110431	591.0746751	545.9777817	606.4078807	-0.810769221	4.491616203	3.9110898
B7LA91	TY-2482_chromosome	+	3538874	3539935	1972.837688	1816.810155	1971.511178	3111.633963	2740.087524	3194.175049	-0.623523144	1.203214429	0.976357
B7LA92	TY-2482_chromosome	+	3539948	3540616	857.7514347	817.2854419	896.0431601	1280.590238	1149.310347	1407.456954	-0.540655751	2.319983978	1.9573035
B7LA93	TY-2482_chromosome	+	3540662	3541249	1248.084386	1236.87639	1325.190861	1331.25508	1232.169031	1299.828441	-0.010386686	0.034509387	0.0235238

B7LA94	TY-2482_chromosome	+	3541439	3541708	12425.36566	11504.48672	12640.93848	14463.25778	21613.93549	15078.60038	-0.447011001	0.623623396	0.486722
D3GSY0	TY-2482_chromosome	+	3541718	3542416	1090.4544	941.4551734	1059.73043	1582.063224	1604.434927	1497.307116	-0.56959101	2.458949765	2.0801825
B2TWI9	TY-2482_chromosome	-	3542424	3542987	56.37980321	44.50740661	41.28179137	81.66965872	67.28027069	72.42863395	-0.644328991	2.15933544	1.8123788
B7LAV0	TY-2482_chromosome	+	3543084	3544457	434.2325238	514.6552587	524.3968197	438.0150874	292.8974497	342.2004831	0.397382982	1.440562253	1.1843371
B7LAU9	TY-2482_chromosome	+	3544457	3545779	437.8055003	679.3716213	523.421277	579.8135841	451.4050811	451.4469921	0.031323512	0.377701788	0.2865579
B7LAV2	TY-2482_chromosome	-	3545782	3547068	764.3688017	731.6563907	697.7077951	2161.350269	1808.160735	2316.530584	-1.512933673	12.18872724	11.153664
B7LAV3	TY-2482_chromosome	-	3547083	3548669	662.7177277	595.6423708	598.0471661	2642.087145	2108.451002	2900.572848	-2.016732664	20.62346778	19.320148
E9WNY3	TY-2482_chromosome	-	3549197	3549430	124992.6562	572333.7327	245732.1644	42431.78905	65374.34392	122049.1676	1.793886956	3.673219067	3.1588469
rrsD	TY-2482_chromosome	+	3549284	3550825	864799.8179	3841816.484	1869124.446	204102.4673	239907.4933	766132.4269	2.305529075	4.446959082	3.8732607
Q57H85	TY-2482_chromosome	+	3550405	3550722	211667.1932	948403.2063	430855.5018	14082.50317	17982.23695	87487.31826	3.659264402	7.576523098	6.7875814
ileT	TY-2482_chromosome	+	3550894	3550970	495.5164014	479.4781293	252.499633	110.5863916	378.4901416	69.74827293	1.01423571	2.46578732	2.0854238
alaT	TY-2482_chromosome	+	3551013	3551088	318.3389183	284.5899089	165.4377714	131.8971617	357.4898486	59.28837141	0.366229916	0.698982495	0.5491082
rrlE	TY-2482_chromosome	+	3551272	3554175	522102.4302	5520982.646	1460372.343	1196224.63	990135.6842	5339550.919	-0.401776501	0.02255974	0.0006353
Q1R3T8	TY-2482_chromosome	-	3551498	3551800	86710.61963	712917.539	231252.9288	296996.3511	244703.3674	1187983.795	-1.066523129	0.626934378	0.4889884
C1HUN3	TY-2482_chromosome	-	3552858	3553061	82417.98078	1047667.168	254941.8645	194501.0029	162234.4686	962513.2952	-0.355627802	0.037007268	0.0250864
C1HUN1	TY-2482_chromosome	-	3553138	3553590	88654.96687	993729.9631	243684.8579	70964.16314	42468.90058	476537.5353	0.0818412074	0.952709237	0.7631856
C1HUN0	TY-2482_chromosome	-	3553594	3553950	75283.61448	766853.0956	206025.1505	47684.52209	30640.0518	335529.9058	1.037151339	1.185907453	0.9627245
Q1R8D8	TY-2482_chromosome	-	3554154	3554478	4774.633536	24002.19884	2832.648057	17641.87186	144790.4956	15437.73653	-3.243137104	3.089446297	2.6390792
rrfC	TY-2482_chromosome	+	3554269	3554388	3517.765228	13782.48418	182.5202429	14902.64029	141414.3775	5675.934396	-4.078611042	3.097872931	2.6461617
B7LAV4	TY-2482_chromosome	-	3554507	3554947	52.21817911	56.67137516	58.85759952	39.96865335	42.78654209	40.82767471	0.441925869	1.099100906	0.9733651
B7LAV1	TY-2482_chromosome	+	3555104	3556030	42.83051809	32.19453676	36.21717379	102.5344684	108.3586766	83.25269425	-1.383208816	8.588822647	7.7322507
B7LAV5	TY-2482_chromosome	+	3556302	3557900	120.8661949	81.65645921	86.18873931	78.90908596	74.61354491	71.1806577	0.396764555	1.027447341	0.8259836
B7LAV7	TY-2482_chromosome	+	3557933	3559234	193.8525682	139.1731953	197.6899885	136.4732176	91.78362762	110.5906994	0.701676984	2.562745263	2.1719776
B7LAV8	TY-2482_chromosome	+	3559518	3561251	84.4928399	87.31102698	81.09136716	70.483276106	50.83276126	70.83979462	0.376594547	1.114290136	0.901071
B7LAV9	TY-2482_chromosome	-	3563117	3563938	366.4860215	358.0757641	341.8657943	242.9402958	241.1456424	249.9378947	0.536980753	2.126026685	1.7826514
B7LAW1	TY-2482_chromosome	+	3564138	3567818	2164.850791	2466.723458	2251.317905	6544.427304	5192.62611	6772.538759	-1.457512231	3.82981323	3.3024069
B7LAW2	TY-2482_chromosome	+	3568041	3569669	1065.780073	953.8716311	996.9005142	1120.360462	1049.2369	1174.72324	-0.121280789	0.333806044	0.2508018
B7LAW3	TY-2482_chromosome	-	3569766	3570462	546.6737918	520.921615	553.3172471	239.4662339	263.0088551	274.8312695	1.098624384	6.63229392	5.8987759
B7LAW0	TY-2482_chromosome	+	3570664	3571533	734.2698841	752.4938205	808.9266149	538.1796217	602.4462806	668.0637559	0.390258753	1.058216556	0.8529532
B7LAW5	TY-2482_chromosome	-	3571540	3571809	612.4115933	668.9328018	598.6779314	262.2262901	353.1953795	318.344722	1.008761541	5.985230626	5.2929647
B7LAW6	TY-2482_chromosome	+	3572338	3573462	38.65195114	46.21931593	49.7356857	39.53237258	32.69589882	38.11463718	0.275333022	0.573112562	0.4440947
B7LAW7	TY-2482_chromosome	+	3573462	3574259	76.36318785	79.00247726	62.37193526	47.3523432	46.0456471	0.626980723	0.264681901	1.9962608	
B7LAW4	TY-2482_chromosome	-	3574301	3575230	46.07058229	58.7765836	61.64244324	27.66769155	35.66706149	13.8450773	1.02759796	3.9886456	3.4485559
B7LAW9	TY-2482_chromosome	-	3575372	3576718	703.7471385	692.9182317	665.3964593	1147.999528	982.7548007	1232.483455	-0.710160906	3.539056984	3.0407797
B7LAX0	TY-2482_chromosome	+	3577243	3578889	8978.485535	9026.015105	9531.897008	14317.96444	11956.13602	15875.18539	-0.58874002	0.908995559	0.7261917
B7MRF8	TY-2482_chromosome	-	3579231	3579518	47.0489383	51.12750342	47.46841953	48.82205898	73.86150442	55.41825509	-0.291096038	0.618625976	0.4827667
B7LAX4	TY-2482_chromosome	+	3580975	3583068	39.68213344	36.53495722	37.58138176	66.19929746	45.40567886	48.88465036	-0.53010299	1.296867885	1.0576431
B7LAX3	TY-2482_chromosome	+	3583666	3584073	88.97715354	108.4105854	71.46606212	35.17660944	52.95939467	31.96665012	1.055002011	5.197537182	4.5585528
B7LAX8	TY-2482_chromosome	-	3584123	3585595	93.5153531	83.43119396	94.4891439	77.39024192	92.92676789	68.7394339	0.202898328	0.418580182	0.3189018
B7LAX9	TY-2482_chromosome	-	3585970	3586857	1328.073262	1347.513607	1436.784879	4648.451846	2778.199189	3571.991127	-1.459476954	3.986704246	3.4469444
B7LAX7	TY-2482_chromosome	-	3586875	3588416	3383.779941	3801.552131	3833.425473	14504.488892	6500.231698	9299.007846	-1.558388474	3.409682394	2.9246968
B7LAY1	TY-2482_chromosome	-	3588573	3589760	11346.12028	12136.88912	11701.30731	38868.0737	22035.8698	25525.89343	-1.389027144	2.609755774	2.2140462
B7LAY2	TY-2482_chromosome	+	3590125	3591237	6780.703787	6617.312117	6327.551662	19590.33243	11546.72449	14632.40655	-1.27607397	2.531411534	2.1436752
B7LAY3	TY-2482_chromosome	+	3591312	3592649	9063.073673	9017.914057	8689.905556	26250.35359	12819.63498	19931.5542	-1.204024026	2.15129612	1.8056068
B7LAY4	TY-2482_chromosome	+	3592804	3593721	2772.261679	2702.241649	2679.823377	6138.340022	3308.682704	5927.745769	-0.9265937	1.772003693	1.4738191
B7LAY7	TY-2482_chromosome	+	3595756	3596250	381.1573448	430.1696428	467.0370334	269.6801253	261.1024326	342.9270167	0.590832299	2.066704957	1.7300609
B7LAY8	TY-2482_chromosome	+	3596266	3597135	709.5108808	777.8924659	822.859477	667.7918166	740.8388854	643.5197187	0.16777374	0.404116592	0.3063884
B7LAY9	TY-2482_chromosome	-	3597296	3599716	1850.234504	1662.337933	1791.227099	4215.961745	3964.085184	5333.009036	-1.284700138	3.652255906	3.1412044
B7LAY6	TY-2482_chromosome	+	3599887	3600252	284.3302905	240.7255705	262.0777329	303.332379	342.2551522	279.1785419	-0.209527025	0.57988152	0.4498379
B7LAZ0	TY-2482_chromosome	+	3600365	3600970	3679.964204	3969.271264	4094.885394	3258.035508	3029.51123	3333.685472	0.288213409	0.371586045	0.2814972
B7LAZ2	TY-2482_chromosome	+	3600992	3602389	618.5402007	574.9107918	580.9264186	629.0326559	631.549761	681.3724495	-0.107360924	0.28455032	0.2125789
D3GT26	TY-2482_chromosome	+	3602482	3602694	666.3082395	700.0449535	629.0207694	554.0227814	918.6673501	328.7028838	0.071288665	0.235211098	0.1745466
B7LAZ1	TY-2482_chromosome	-	3602742	3603254	1091.153536	1023.119822	1046.423686	582.4634211	647.1182936	531.7829177	0.843024647	4.820113768	4.2103737
B7LAZ7	TY-2482_chromosome	+	3604927	3605961	595.9349711	603.1620618	650.4632036	854.359486	853.6170056	865.6764757	-0.461295977	1.794627806	1.4922636
B7LAZ8	TY-2482_chromosome	+	3605888	3606337	64.09921821	76.73752573	76.03428119	70.96990254	67.32156519	68.45421212	0.043058187	0.099464066	0.0731715
B7LAZ9	TY-2482_chromosome	-	3606509	3607489	1199.372547	1226.806716	1421.780265	1164.528512	1092.050497	1035.566852	0.232653391	0.567998555	0.4396206
B7LB00	TY-2482_chromosome	+	3607572	3608984	1127.754732	1105.216211	1097.248178	1743.510601	1677.171242	1932.434945	-0.667653186	3.094001521	2.6428284

B7LB01	TY-2482_chromosome	+	3609040	3610116	1231.868388	1029.067253	1127.646694	1424.142145	1508.828981	1770.484044	-0.400829578	1.623147889	1.3449173
B7LAZ6	TY-2482_chromosome	+	3610372	3611562	1492.6797	1463.374221	1492.782004	1844.745734	1586.112697	2045.471911	-0.278201917	0.83715188	0.6657926
Q0SXS2	TY-2482_chromosome	+	3612452	3613402	821.2246089	689.3768366	824.1154825	2299.135245	1993.039182	1438.635897	-1.314415449	8.142712295	7.3074925
B7LB05	TY-2482_chromosome	+	3613516	3613929	770.4827747	645.0701007	675.3007696	1097.435694	1095.713078	1017.129928	-0.60181889	2.90602204	2.4766141
B7LB06	TY-2482_chromosome	+	3613936	3614289	543.7647795	492.7505418	516.9293594	799.320354	736.1913377	772.2819401	-0.557537317	2.97469781	2.0047181
B7LB07	TY-2482_chromosome	-	3614330	3617149	2099.932617	2060.903231	2076.406381	4299.008993	3412.551813	4727.952486	-0.978700236	2.221182104	1.8691185
B7LB08	TY-2482_chromosome	+	3617403	3617936	1538.996684	1502.36333	1650.061679	2301.520634	2976.909297	2339.402192	-0.67308509	2.02653438	1.6943433
D3GT41	TY-2482_chromosome	-	3618041	3618418	257.3151656	279.274958	208.840103	107.8297628	191.4210614	101.8782915	0.829899359	3.622295116	3.1143193
B7LB02	TY-2482_chromosome	+	3618749	3620332	181.3360692	224.1493306	262.5950627	157.6396283	164.7588794	141.0096268	0.522925476	1.906314416	1.5903774
B7LB11	TY-2482_chromosome	-	3620341	3620661	149.5246808	147.2664127	156.5426005	261.9439555	423.3131846	382.6693984	-1.164442617	7.606339415	6.8150501
B7LB12	TY-2482_chromosome	+	3620747	3621208	118.10252	130.5161382	113.3834389	176.7471641	171.0884915	160.6609845	-0.541762196	1.911711084	1.5951828
D3GT45	TY-2482_chromosome	+	3621198	3621461	65.44440758	64.92727448	31.47307555	45.79498916	36.38465112	28.07501083	0.378548496	1.20459346	0.9775756
ryjA	TY-2482_chromosome	-	3621205	3621344	57.95348291	57.32254307	28.20905507	36.5967312	30.96375746	18.98518348	0.544021508	1.718369983	1.4287966
B6I5T1	TY-2482_chromosome	-	3621505	3621720	78.91056392	60.05235311	53.7293258	108.9346747	122.9223426	101.5307618	-0.785571209	3.578085115	3.0761962
Q8FAZ7	TY-2482_chromosome	+	3621641	3621853	104.0963186	95.46879711	87.57091619	191.5777158	219.373254	198.7398133	-1.084065996	7.22653029	6.4592793
B7LB13	TY-2482_chromosome	+	3621757	3623103	415.6744789	452.998063	443.0286034	1160.309461	1142.980975	1295.686616	-1.452487701	12.82310213	11.7625747
B7LB10	TY-2482_chromosome	+	3623257	3624903	2722.172277	2537.884833	2690.47338	1097.664402	948.2290025	943.4652752	1.404460152	8.366675769	7.5195748
B7LB16	TY-2482_chromosome	-	3626533	3628179	222.9841488	194.1315379	205.9381716	53.2886906	39.91596007	58.89244626	2.070639216	20.83963327	19.53247
B7LB14	TY-2482_chromosome	-	3628693	3630648	527.0932369	561.5420381	581.1067804	77.39173842	48.08866024	61.88516994	3.114851714	40.18598204	38.461135
B7LB19	TY-2482_chromosome	+	3631040	3632521	3502.986807	3048.380498	3372.508716	59.21805398	29.85466388	42.20387838	6.214508948	107.1200434	104.06276
B7LB20	TY-2482_chromosome	+	3632569	3633132	643.0433079	679.8930665	678.7437518	24.44940524	16.26130587	26.07397328	4.899624341	76.68348537	74.346359
B7LB21	TY-2482_chromosome	+	3633132	3633800	379.048711	399.24418	406.7620787	27.34369633	19.04789306	18.65728398	4.128901838	61.56758406	59.464541
B7LB18	TY-2482_chromosome	+	3633800	3634753	200.8860071	246.5634902	246.4270446	26.69629272	14.42341744	22.31799748	3.394813189	43.37073473	41.59788
B7LB23	TY-2482_chromosome	+	3634836	3636491	53.81981764	45.38705655	61.01981193	48.17725451	32.62473937	48.45994942	0.371169223	0.681953054	0.5349285
B7LB26	TY-2482_chromosome	+	3637805	3639115	1288.381856	1357.676389	1453.998141	1932.095364	1801.851425	1991.747379	-0.469968536	1.752544534	1.4581395
B7LB27	TY-2482_chromosome	-	3639199	3639885	406.7717103	424.7354012	404.645624	392.7008661	363.0487017	419.5185337	0.068269906	0.140183659	0.1032424
B7LB28	TY-2482_chromosome	-	3639982	3642126	1100.685337	1197.465196	1186.477189	366.0566779	298.4132798	334.1830833	1.774445465	17.79348095	16.567105
B7LB29	TY-2482_chromosome	-	3642327	3643790	29.89809306	30.79764758	28.97002497	51.95470989	6.994804083	34.43367483	-0.439814388	0.694817922	0.5457491
B7LB24	TY-2482_chromosome	-	3643790	3645838	59.36266545	36.08746731	52.90497369	64.18874171	51.85545049	41.23399633	-0.043335827	0.09953653	0.0731715
B7LB31	TY-2482_chromosome	-	3645841	3646869	28.76387934	21.15417585	17.42335234	28.97703769	39.34732178	12.62226868	-0.332423079	0.316096526	0.2373338
D7XTI2	TY-2482_chromosome	-	3650105	3650485	80.10448189	83.97738324	64.31710022	52.65401449	96.74487334	53.09245795	0.129849754	0.288832147	0.2157905
B7LB33	TY-2482_chromosome	-	3650475	3651230	98.4452364	54.57848402	77.19844553	104.2593027	97.29200125	128.5456497	-0.379680579	1.580146978	1.3067649
B7LB36	TY-2482_chromosome	-	3651235	3651666	53.82441323	43.15212526	62.40874475	63.84180505	85.58177901	91.78816337	-0.463375542	1.872703037	1.5616623
B7LB37	TY-2482_chromosome	-	3651656	3652210	18.59787241	14.57849006	24.82175746	29.98778468	39.22062734	30.4313671	-0.677572543	1.919077426	1.6009684
B7LB38	TY-2482_chromosome	-	3652213	3653346	21.59711022	19.21011992	26.68072844	32.90626298	27.22866298	34.08298473	-0.41710721	0.936077044	0.7491762
B7LB49	TY-2482_chromosome	-	3661487	3661927	60.01986177	40.87882162	56.90473611	33.41543584	28.1135703	41.72658557	0.72739691	1.785077228	1.4838569
B7LB50	TY-2482_chromosome	-	3662090	3662569	593.7859092	597.4976193	571.6572752	49.5174355	68.34598935	59.21920228	3.331014922	45.91802482	44.116012
B7LB47	TY-2482_chromosome	+	3662824	3665049	537.6153013	591.6427539	531.3477002	330.9541653	343.107601	321.1198165	0.702317701	3.595134047	3.0902124
B7LB52	TY-2482_chromosome	+	3665049	3665924	306.3229977	392.7417519	360.5236826	291.5379577	295.7647844	293.4100942	0.222514419	0.701672102	0.5508562
B7LB53	TY-2482_chromosome	+	3666191	3667690	4612.101886	3882.997203	4199.04241	7224.874128	8842.099841	8990.725309	-0.911498845	1.960518903	1.6366312
B7LB54	TY-2482_chromosome	-	3667873	3668961	873.4814293	906.1427895	809.9027072	598.3468512	556.9151573	581.5164185	0.544988775	2.421374166	2.0469102
B7LB51	TY-2482_chromosome	-	3668974	3669639	836.0984709	804.0867029	827.2624805	512.8128909	510.5120552	548.5117811	0.670733861	3.069177083	2.621219
B7LB56	TY-2482_chromosome	-	3669639	3671279	250.4867595	255.0261879	252.8430068	96.69815771	82.75400071	90.78743767	1.473050073	12.89655284	11.8316
B7LB57	TY-2482_chromosome	-	3671386	3672720	52.11243245	66.05680018	62.12821804	95.68023809	104.6618505	107.7889879	-0.78970613	3.514338592	3.0187505
B7LB58	TY-2482_chromosome	-	3672860	3673663	104.5325251	134.4505935	102.7337802	214.4882193	288.6551771	199.0563418	-1.125459982	5.721456686	5.0479864
B7LB59	TY-2482_chromosome	-	3673991	3676258	140.5963135	148.7012411	128.5207113	228.3667412	157.3008526	194.7227916	-0.537100523	1.64708209	1.3655889
B7LB60	TY-2482_chromosome	-	3676457	3677362	267.6689407	278.061903	271.9836409	579.8671183	617.058871	538.2962698	-1.103967667	6.826333322	6.0523875
B7LB55	TY-2482_chromosome	+	3677645	3678997	151.9226627	139.4778795	135.857228	139.4474013	101.7833087	141.841252	0.161610671	0.352773837	0.266648
B7LB62	TY-2482_chromosome	+	3679115	3680521	98.53675474	117.5586265	107.5922504	81.58933769	73.68714628	72.48718231	0.452598794	1.831650847	1.5252591
B7LB63	TY-2482_chromosome	-	3680666	3681292	109.1827471	108.3018333	106.9013516	83.53891676	72.75037664	78.94965119	0.451864371	1.701580807	1.4131182
B7LB64	TY-2482_chromosome	-	3681418	3683061	250.3552187	265.650764	294.0281406	229.8652397	148.0957731	303.03355	0.308735586	0.545998804	0.4213137
B7LB65	TY-2482_chromosome	-	3683142	3684479	321.6202548	311.7838022	300.2801737	149.9871785	144.7364132	112.2611331	1.153062237	8.090302735	7.259617
B7LB66	TY-2482_chromosome	-	3685053	3685769	598.8873102	638.7867938	657.6853748	587.7805077	595.1863607	556.6380984	0.114147237	0.268008521	0.1999502
B7LB67	TY-2482_chromosome	-	3685769	3687397	831.4977955	842.7350026	913.9109062	806.4771769	813.5962778	765.8137346	0.123842926	0.628750658	0.1996707
B7LB61	TY-2482_chromosome	+	3687578	3687805	205.9855024	328.7646765	240.7809732	186.2091375	169.2866196	134.6428162	0.492901155	2.442841626	2.0661181
Q1R3D4	TY-2482_chromosome	-	3687852	3688244	309.1410771	419.2102468	459.3058716	326.240975	284.8631824	215.0159468	0.449689115	1.693977728	1.406623
B7LBS9	TY-2482_chromosome	+	3688319	3688612	251.8247991	297.8869456	277.9557446	11.18716506	14.66891002	5.698606014	4.614237825	67.08558141	64.873394

B7LBT1	TY-2482_chromosome	-	3688938	3690452	3649.524721	3346.724684	3515.071314	10255.93769	10004.13957	11804.74591	-1.567437495	4.403741147	3.8339474
B7LBT2	TY-2482_chromosome	-	3690692	3692146	92.02290004	97.05013518	79.59517178	71.73000843	58.15575302	70.94036016	0.374352169	1.257231164	1.0234197
B7LBT3	TY-2482_chromosome	-	3692208	3694352	86.07923782	89.29314929	70.95831904	67.79807852	66.46029803	54.25380085	0.311066952	1.032230543	0.8300095
B7LBT5	TY-2482_chromosome	-	3696135	3697670	124.7775768	140.9065085	127.9993447	100.0868313	104.7600944	63.79795235	0.462631057	1.904130025	1.5885867
B7LBT7	TY-2482_chromosome	-	3698422	3699261	148.133461	158.4702943	121.7407716	49.59206331	72.97519503	47.71012856	1.273294721	8.889614482	8.0163101
B7LBT9	TY-2482_chromosome	-	3699566	3700051	34.28636351	36.27333262	39.06891333	33.28180784	50.25625773	25.53476502	-0.009227455	0	0
B7LBT6	TY-2482_chromosome	-	3701732	3702583	168.2283347	167.6892582	172.3394727	90.92556429	106.4810314	116.8369378	0.736749156	3.415733831	2.9292829
B7LFP9	TY-2482_chromosome	+	3702958	3703528	632.5599995	654.512912	694.6894261	746.73173	677.0147972	769.5184665	-0.134759939	0.33219558	0.2496518
Q9S110	TY-2482_chromosome	-	3703461	3703829	509.1090537	553.7823864	579.8297701	680.4865249	578.7047932	685.3067117	-0.244148671	0.629082849	0.4904827
P71290	TY-2482_chromosome	-	3703747	3704052	287.8376729	293.8810845	307.084077	386.2608371	326.6163291	394.5281898	-0.309565552	0.9219982	0.7367231
B7LBU5	TY-2482_chromosome	+	3704123	3705643	1408.224838	1258.196124	1434.807583	2348.436247	2195.900002	2469.280222	-0.729916354	2.719460906	2.3144216
Q327G0	TY-2482_chromosome	+	3705721	3706218	209.1830595	192.7401788	288.551813	349.5985	282.018025	334.0936612	-0.410492449	1.614339207	1.3377308
B7LBY5	TY-2482_chromosome	+	3706374	3710489	6318.391552	6750.929137	6594.415466	7099.779784	5576.616874	9016.545685	-0.114447333	0.145653411	0.1063131
B3IA48	TY-2482_chromosome	-	3710589	3710897	222.8717172	211.7574605	221.8472024	189.2407343	243.9151548	271.9440929	-0.03188212	0.196674926	0.145213
Q5K5W0	TY-2482_chromosome	-	3710927	3711566	92.59746468	114.2486481	90.8874593	80.98075376	101.0318833	111.5171439	0.001885403	0.008445143	0.0054068
B7LBW1	TY-2482_chromosome	+	3711654	3712775	274.393316	271.0059715	294.5824218	320.5498037	290.2516937	319.6409541	-0.132069479	0.328567985	0.2469439
D7JSS3	TY-2482_chromosome	-	3713556	3714080	92.17117135	87.17074601	70.24674364	56.59397431	60.13354828	42.52113271	0.581887951	2.25049542	1.8939135
Q327G0	TY-2482_chromosome	+	3714068	3714463	55.50904549	42.65844722	50.16231352	62.94453366	63.68428653	68.32612345	-0.330988901	0.993820565	0.7974715
B7LBV5	TY-2482_chromosome	-	3714497	3715636	356.7488274	347.8878618	340.5895653	176.1206791	164.7010486	160.6287725	1.043592429	6.905619538	6.1558299
B7LBX6	TY-2482_chromosome	+	3715685	3715882	82.8263812	117.8246874	75.48459958	36.07503101	32.70154939	40.59687868	1.222015859	6.726949099	5.9882485
B7LBV3	TY-2482_chromosome	-	3715875	3716069	93.60486452	92.19849889	75.58153542	27.86866598	38.28620246	35.45825758	1.360882533	7.819674637	7.014635
B7LBU8	TY-2482_chromosome	+	3716376	3717299	84.39302895	106.1439937	78.24690721	36.09986194	32.86225097	10.07011751	1.557334177	8.783799929	7.916846
B7LBV1	TY-2482_chromosome	-	3717255	3718445	244.0676505	206.6271565	191.1499204	73.44312319	89.29294248	64.80697852	1.486940756	11.84363425	10.825763
B7LBV0	TY-2482_chromosome	+	3718518	3720362	780.9428543	680.6866532	666.6348924	189.0290643	168.25655336	227.1964872	1.904576767	17.47027008	16.251834
B7LBU9	TY-2482_chromosome	+	3720306	3721250	495.8851375	449.0625079	482.642693	141.2022242	117.2813301	160.1617958	1.811678625	15.84980165	14.676177
B7LBU4	TY-2482_chromosome	+	3721253	3722992	872.8190069	819.4145812	798.0838057	292.7450932	252.8609915	374.3807981	1.478309788	10.27991573	9.3407294
B7LBU7	TY-2482_chromosome	+	3722992	3724326	1983.349872	2041.691468	1662.749665	659.1268846	762.6766197	699.9611155	1.390584492	10.7667789	9.8029149
B7LBU6	TY-2482_chromosome	+	3724251	3726527	2089.52483	2216.508982	1734.010835	1099.23765	1086.561247	1219.397142	0.78880333	4.227475295	3.6702202
Q327G0	TY-2482_chromosome	-	3726923	3727420	135.4232287	105.2752583	146.2246611	178.4937087	185.6425708	193.3193893	-0.433258498	1.970683203	1.6455902
B7LB68	TY-2482_chromosome	-	3727498	3729018	1413.439325	1268.554523	1471.820881	2330.093406	2058.453105	2466.58403	-0.675216828	2.526937996	2.139434
P71290	TY-2482_chromosome	+	3729089	3729394	368.7789647	313.1297556	365.8734862	505.1605928	388.4474372	540.390063	-0.39853656	1.465292262	1.2047544
Q9S110	TY-2482_chromosome	+	3729312	3729680	541.2423473	552.1790771	673.1721643	783.7422812	603.2420822	751.0965609	-0.248781629	0.7306334	0.5754867
B7LFP9	TY-2482_chromosome	-	3729613	3730183	598.8164137	631.6770115	733.8482791	760.696687	591.4064234	761.547197	-0.084442931	0.213747085	0.1583033
C8UCIO	TY-2482_chromosome	-	3730444	3730692	197.7052947	179.9395788	141.4461866	196.3830621	219.416391	162.2341485	-0.210395325	0.338357927	0.2546619
B7LBY1	TY-2482_chromosome	-	3730692	3731114	260.3490914	264.4873999	214.1966828	177.11764555	206.6615024	169.9373712	0.371480566	1.351327281	1.1066208
B7LBY2	TY-2482_chromosome	-	3731345	3732256	49.98041573	60.62872301	50.69943273	40.63669946	44.62522491	39.58821517	0.313975335	0.814319789	0.6478336
B7LBY3	TY-2482_chromosome	-	3732346	3733023	130.155704	135.8187424	115.2783428	41.94047262	50.1382457	37.12497426	1.511473381	11.92995845	10.909102
B7LBX6	TY-2482_chromosome	+	3733358	3734818	172.7795003	165.2298351	167.6559214	142.0005199	117.3073586	140.6632184	0.342031517	1.064375089	0.8583373
B7LBY5	TY-2482_chromosome	-	3735644	3739498	15035.95136	16499.98966	15230.86181	18082.3889	8460.815426	3967.797279	0.847488323	1.700762721	1.4124849
C1J8M7	TY-2482_chromosome	-	3739862	3740863	58.46936423	47.53915015	53.44904803	28.22882359	57.55745028	38.31158001	0.441149419	0.76801144	0.6086839
B7LBV5	TY-2482_chromosome	-	3741267	3741629	68.79561956	69.49599689	66.59931459	22.04235327	24.54221631	31.25100955	1.43096493	7.582547629	7.9932022
E3Y4T4	TY-2482_chromosome	-	3741563	3741827	55.23098311	68.00988707	53.25447218	14.7963252	19.12654268	20.86708917	1.658435473	8.864838422	7.9936612
B7LBY9	TY-2482_chromosome	-	3741972	3745485	1643.584702	1930.666939	1711.217074	1245.972817	1184.889106	1080.352561	0.524382705	2.386632013	2.1053119
B7LBZ1	TY-2482_chromosome	+	3745574	3745834	77.72375594	97.97242426	64.22816371	20.8649431	26.46538527	19.92608535	1.723306719	11.05138889	10.07599
B7LBZ2	TY-2482_chromosome	-	3745941	3747200	227.3631915	214.3985169	226.4767675	152.8468028	175.6966944	155.3595847	0.48581637	1.694066961	1.406623
B7LBZ3	TY-2482_chromosome	-	3747267	3747512	105.3715382	96.6358855	121.7809197	78.50052073	97.43647861	89.46089314	0.356721365	0.84401346	0.6716647
pheU	TY-2482_chromosome	-	3747398	3747473	34.56736621	26.83504486	29.61891997	36.72516982	35.46039854	39.38446632	-0.245306314	0.519708363	0.400066
D3GV37	TY-2482_chromosome	-	3747583	3748179	715.6924245	612.3139552	785.9890229	900.1940814	967.3928911	977.4447001	-0.352528602	1.529382991	1.2603937
B7LBZ0	TY-2482_chromosome	-	3748195	3749889	579.7151703	503.2922779	534.7360989	967.2353465	863.5292561	1166.51062	-0.832710941	5.019086577	4.3943694
B7LBZ6	TY-2482_chromosome	-	3749868	3750203	193.8269888	168.336818	176.8682858	181.6166447	185.5870122	237.6855544	-0.099474162	0.358849465	0.2709797
B7LBZ7	TY-2482_chromosome	-	3750322	3751620	5965.020912	4751.339742	5198.601401	14329.41659	10488.19627	13800.62526	-1.247058408	2.871981549	2.4458859
Q8FAM6	TY-2482_chromosome	+	3751720	3753168	46376.42447	46475.77519	48821.13949	84521.32755	61515.76232	58426.86493	-0.582602099	0.663181633	0.5189147
B7LBZ5	TY-2482_chromosome	+	3753511	3753984	217.3602173	281.653501	242.8961119	336.0325992	428.7766737	312.1614483	-0.603948501	1.919634246	1.6011929
B7LC00	TY-2482_chromosome	-	3754006	3755292	192.1062985	193.634284	210.0850214	177.792346	176.0923118	163.4841998	0.084055391	0.145484779	0.1060669
A1AJ50	TY-2482_chromosome	-	3755405	3755725	2578.525811	2627.216439	2536.543619	5245.164188	4000.507235	3990.544354	-0.829675776	1.471050023	1.2099917
B7LC02	TY-2482_chromosome	+	3755872	3757515	19448.29105	18917.21554	19655.87218	42954.3729	29239.80628	35871.59223	-0.921726291	1.490851811	1.2280542
B7LBZ9	TY-2482_chromosome	+	3757656	3758006	1167.869929	1336.717736	1429.648652	1361.972681	1433.351293	1357.793088	-0.078987809	0.151794015	0.1108103

B7LC04	TY-2482_chromosome	-	3758215	3759081	144.8914362	164.5289129	166.4886558	132.8957208	133.8446577	95.23664928	0.338214317	1.247498592	1.0158013
B7LC05	TY-2482_chromosome	-	3759474	3760499	521.8819799	578.8539086	534.0459902	746.0066986	789.0504881	706.6565837	-0.490610665	1.648846661	1.3669894
B7LC03	TY-2482_chromosome	+	3760541	3761104	5282.015685	5072.155314	5138.564739	5233.665055	7415.268499	5627.118154	-0.216743644	0.274542444	0.205258
A7ZV20	TY-2482_chromosome	-	3761382	3761630	2666.270514	2813.097413	1727.684838	604.1872172	2426.193288	514.4375769	0.93314102	2.209738531	1.8589573
B7LC09	TY-2482_chromosome	+	3761716	3762030	488.2923559	547.346059	448.6707541	275.3982683	354.9920121	334.0887812	0.600644424	2.511356736	2.1261689
B7LC10	TY-2482_chromosome	-	3762033	3762563	1112.02804	1084.803561	1119.767461	529.6628551	591.530101	644.4192436	0.94997502	5.620381625	4.9566712
B7LC06	TY-2482_chromosome	-	3762655	3763785	211.4329122	249.0967204	238.3854956	215.3365667	212.9258889	227.5230146	0.073424579	0.17636106	0.1300111
B7LC12	TY-2482_chromosome	-	3763839	3764195	1767.742971	1916.262545	1951.080496	1513.337218	1330.455437	1322.348579	0.407441294	1.48721028	1.2245869
B7LC13	TY-2482_chromosome	-	3764209	3764601	2415.408466	2547.464393	2597.426598	1848.800489	1523.315598	1916.635851	0.517113045	1.086564557	0.8778026
B7LC11	TY-2482_chromosome	-	3764615	3765346	5945.272034	5914.438431	6194.382207	3375.855803	2507.958407	3294.112965	0.978032365	2.03954335	1.7061237
B7LC15	TY-2482_chromosome	-	3765342	3767147	19635.93603	19218.88238	21435.3564	9524.992774	6533.104169	8333.062001	1.301943838	2.815455858	2.39616
B7LC16	TY-2482_chromosome	+	3767472	3768446	297.1256538	238.3612397	258.7157115	517.6887677	486.8777393	440.9799215	-0.850331518	4.508376173	3.9271247
B7LC17	TY-2482_chromosome	+	3768668	3770167	113.1387427	102.9368834	86.7752849	74.41696347	84.5896747	111.2879839	0.207117243	0.353452826	0.267211
B7LC14	TY-2482_chromosome	+	3770222	3770533	46.48895465	39.43959526	41.50803427	23.91637725	34.66374801	30.24349076	0.575058102	1.323717823	1.0825077
B7LC19	TY-2482_chromosome	+	3770533	3770844	81.08992893	58.2485771	63.86298435	68.0138105	86.53747849	73.76765904	-0.105974676	0.298209378	0.223195
B7LC20	TY-2482_chromosome	+	3770879	3774199	1050.933886	856.5663754	932.8391277	1531.134918	1776.6348848	1854.827894	-0.792323158	4.41116532	3.8403102
B7LC21	TY-2482_chromosome	-	3774224	3775189	970.1556239	832.8109576	831.713779	2321.22225	2165.79804	3197.580208	-1.473217541	11.70836774	10.698357
B7LC22	TY-2482_chromosome	-	3775289	3776338	1297.518963	1292.99476	1233.195872	1822.226743	1851.007255	2104.752649	-0.58096839	2.512405005	2.126755
B7LC23	TY-2482_chromosome	+	3776433	3776975	694.6130243	756.9600168	744.1056986	682.7752615	726.2087431	783.9353199	0.01105059	0.00188364	0.0003585
glyY	TY-2482_chromosome	+	3777189	3777264	1169.020321	1125.267398	962.9305389	659.2016436	1475.696622	609.9954035	0.224918083	0.456628784	0.3487331
A1AJ71	TY-2482_chromosome	-	3777203	3777469	1278.224329	1220.571512	1034.2111	739.3375097	1637.684294	674.4705067	0.187028179	0.364029247	0.2752266
glyY	TY-2482_chromosome	+	3777301	3777376	691.4446675	564.407331	459.6094722	415.6909333	881.4413809	324.6411952	0.055453649	0.110002051	0.0806773
B7LC18	TY-2482_chromosome	-	3777649	3778785	1003.58622	946.1754787	1049.891533	473.9945261	532.4276099	484.240099	1.039474908	6.493162338	5.7703304
B7LC25	TY-2482_chromosome	+	3778784	3780328	743.4421242	645.2346946	731.6126178	696.615325	663.348897	837.6776523	0.016432389	0.093388547	0.0683186
B7LC27	TY-2482_chromosome	+	3780303	3780761	263.0167737	298.6262501	313.7990905	342.5460556	340.2856541	438.9707459	-0.321533708	1.051778209	0.8469726
B7LC28	TY-2482_chromosome	+	3780783	3782117	1123.249916	1128.175025	1092.60274	1080.175514	1098.408435	1187.866059	-0.001100906	0.015912396	0.0103579
B7LC24	TY-2482_chromosome	+	3782130	3783974	2230.846542	2089.605596	2182.067371	2259.012873	2263.267184	2479.787685	-0.076353416	0.125106775	0.0921015
B7LC30	TY-2482_chromosome	+	3783970	3784917	7322.881164	6842.026782	7191.940264	7033.260562	9036.038306	6932.260323	-0.088810219	0.107268397	0.0791635
B7LC31	TY-2482_chromosome	+	3785006	3785311	5758.328572	5644.075862	5953.395726	6197.865007	8634.772275	5749.695518	-0.239362481	0.280368975	0.209295
B7LC32	TY-2482_chromosome	+	3785391	3786668	5103.975176	5128.542091	5111.508048	6895.767154	5866.107774	6792.42931	-0.355380539	0.448841384	0.3428933
B7LC29	TY-2482_chromosome	+	3786757	3788013	6830.171658	5920.213619	6210.089095	17732.97901	14484.25355	19308.95638	-1.405065292	3.410239287	2.9249535
B7LC34	TY-2482_chromosome	+	3788019	3789020	5096.046846	4004.443419	4416.884227	13023.56887	11887.0343	13291.56172	-1.451937257	3.81213824	3.2853725
B7LC35	TY-2482_chromosome	+	3789105	3789299	66.63854682	66.54733411	56.51307142	126.9066707	122.874313	105.5325001	-0.958801172	4.934101128	4.3169371
B7LC36	TY-2482_chromosome	+	3789406	3790701	11169.87083	9431.426203	10540.00646	17188.0537	14882.9279	15500.66224	-0.590296187	0.895287348	0.715517
B7LC37	TY-2482_chromosome	+	3790909	3791331	876.0284788	1321.227641	1090.66827	1128.976673	1007.358814	1147.11113	-0.086034993	0.00079285	0
B7LC38	TY-2482_chromosome	+	3791373	3793811	6810.427405	7248.402789	7573.015598	12445.83988	8959.285344	13008.44906	-0.664057717	1.044475613	0.8405839
B7LC33	TY-2482_chromosome	+	3793994	3794722	896.6707911	840.491617	911.8509074	2374.107541	2148.567915	2431.147939	-1.367077141	11.05310403	10.076805
B7LC47	TY-2482_chromosome	+	3798994	3800616	348.1658764	419.6480518	459.1933133	195.678555	162.7745799	228.5075457	1.085594622	6.020513238	5.3263693
B5Z2J4	TY-2482_chromosome	-	3800739	3801023	302.1415131	303.7926702	285.7465582	1162.486064	1135.747018	1064.494406	-1.94064782	19.54504403	18.269514
B7LC49	TY-2482_chromosome	-	3801163	3801489	949.8627933	860.9913628	880.009153	2168.403628	2693.004143	1814.746772	-1.317437262	9.019750995	8.1421607
B7LC50	TY-2482_chromosome	+	3801671	3802417	304.9755829	339.5222239	328.1449785	315.3660287	286.6302748	292.1447988	0.089794513	0.256050166	0.1904335
B7LC45	TY-2482_chromosome	-	3802420	3803172	346.9148794	358.1447941	367.1402452	317.583792	272.9948783	242.4216748	0.322936525	1.112793489	0.899985
B7LC52	TY-2482_chromosome	-	3803283	3804344	64.73431087	109.0953799	65.60585672	89.47318753	87.38923696	72.66654264	-0.251193583	0.11902164	0.087349
B7LC53	TY-2482_chromosome	+	3804699	3806093	36.61713322	46.72151626	29.2776174	36.37762097	26.29733224	32.86521262	0.113459206	0.327071281	0.2461356
B7LC51	TY-2482_chromosome	+	3806427	3806888	28.33435372	26.6586042	33.21905717	30.32556984	24.53264395	20.11818857	0.152466521	0.263543819	0.1962639
A7ZV67	TY-2482_chromosome	-	3806914	3807579	62.28136208	41.05247693	58.90103057	73.44538343	56.33450363	68.3302294	-0.179067641	0.519746385	0.400066
B7LCQ7	TY-2482_chromosome	+	3807565	3808416	64.26949383	51.13771258	77.69079045	72.00835886	73.08600865	73.25343658	0.169437347	0.126547652	0.0928189
B7LCQ8	TY-2482_chromosome	+	3808419	3809102	65.53814437	84.07175741	80.65900294	51.97922461	44.53010831	51.25481215	0.602075917	2.233209394	1.8790001
B7LCQ9	TY-2482_chromosome	+	3809250	3809798	29.15380137	30.62383878	27.61342069	4.398600548	30.46033883	9.614896099	0.102052351	2.002796943	1.6742174
B7LCQ6	TY-2482_chromosome	+	3810478	3810870	18396.41056	14070.83821	15464.55279	19040.90828	20457.05134	21110.25746	-0.274464871	0.389330069	0.2952537
B7LCR2	TY-2482_chromosome	+	3810880	3811191	12632.10037	9002.283315	10877.35165	13426.62648	13310.37292	14995.1869	-0.272490724	0.432604153	0.3300433
B7LCR3	TY-2482_chromosome	+	3811199	3811423	11499.8108	8667.068856	10123.3603	10578.30891	10360.86205	13113.63702	-0.074997414	0.173529047	0.1280663
Q8FAI4	TY-2482_chromosome	-	3811444	3811929	17321.01077	13241.46374	14692.76128	15618.82315	15244.23272	16916.02911	-0.017049569	0.072088607	0.0519305
B7LCR5	TY-2482_chromosome	-	3811991	3812782	54.73117773	40.47105736	52.92437277	58.34559646	69.24970956	52.90152002	-0.225138992	0.589335194	0.4576748
C8ULY2	TY-2482_chromosome	-	3813225	3813821	27.77565168	21.74200881	25.74594531	11.50515735	26.71356962	4.615437508	0.807028183	1.597611193	1.322619
B7LCR8	TY-2482_chromosome	+	3813844	3815049	629.2112895	536.3066728	494.184951	393.7260246	475.1065053	442.0417939	0.364066106	1.017546695	0.8175935
C8TP27	TY-2482_chromosome	-	3815190	3815825	1912.902059	2003.788673	1954.262884	1367.806043	1393.262339	1524.638766	0.461238241	1.603912174	1.3282024

C1NBA6	TY-2482_chromosome	+	3815900	3816661	2343.71847	2356.849323	2291.59751	2089.985328	2018.374286	3001.500526	0.030782052	0.024226716	0.0161895
B7LCS1	TY-2482_chromosome	+	3816973	3818382	671.478106	740.9918569	661.4039976	575.2060198	548.704642	636.5539865	0.218246375	0.611940296	0.4775098
B7LCS2	TY-2482_chromosome	-	3818433	3819092	117.6075817	94.07534548	104.2529463	574.5809694	581.5178957	582.8291484	-2.41656366	29.02664426	27.549142
B7LCS3	TY-2482_chromosome	-	3819203	3820174	74.16142491	62.80395951	67.95409269	58.76439004	73.76351634	70.96562405	0.068042502	0.023213592	0.0155336
B7LCS4	TY-2482_chromosome	-	3820276	3821133	113.7533325	101.2854767	108.2565938	175.4453731	156.4743565	171.0069202	-0.618542846	2.941618419	2.0575821
B7LCS6	TY-2482_chromosome	-	3821734	3823674	910.9156642	881.0897073	856.8707746	1827.503002	1375.900204	1478.919474	-0.860978819	4.114333363	3.5649036
B7LCS0	TY-2482_chromosome	+	3823864	3824601	1549.469755	1543.294135	1623.585691	1475.22942	1361.429784	1246.140053	0.191388942	0.512906398	0.3947655
B7LCS8	TY-2482_chromosome	-	3824597	3825151	551.0337716	612.4065023	574.3530379	585.1629761	574.2332811	567.0955401	-0.020348298	0.013511995	0.0087279
Q8Z151	TY-2482_chromosome	+	3825410	3825679	2360.854303	2705.66545	2191.679001	2575.854335	5135.083543	1443.205203	-0.440271749	0.382118371	0.290152
B7LCT0	TY-2482_chromosome	-	3825747	3827087	537.6823494	543.4440593	526.7903135	647.3073283	756.3149848	678.9424193	-0.371316583	1.191161779	0.9667043
B7LCT1	TY-2482_chromosome	-	3827413	3828048	553.3561866	538.9605912	585.7361914	558.6551378	528.6456973	707.3243725	-0.03990417	0.187231175	0.1380132
B7LCS7	TY-2482_chromosome	+	3828254	3829984	1484.369659	1512.323164	1603.81769	1118.38408	1111.162702	1115.66643	0.468580001	1.62996574	1.3508313
B7LCT3	TY-2482_chromosome	+	3829984	3833760	2896.427597	2738.564927	2792.086888	2312.027118	2335.119399	3009.648468	0.191760372	0.157297622	0.1150176
B7LCT4	TY-2482_chromosome	+	3833766	3834104	673.0366511	657.2602157	686.0154333	340.263279	566.3109683	364.8099266	0.691327245	2.521186844	2.1346108
B5Z310	TY-2482_chromosome	+	3834313	3834567	78.21016184	115.8596849	88.31227574	114.5293494	93.6661141	101.3720332	-0.250869628	0.308940564	0.2314309
B7LCT2	TY-2482_chromosome	+	3834564	3834911	120.1564356	148.4520951	140.6931993	167.8756252	125.4878455	140.8647091	-0.149096408	0.183236323	0.1352953
B7LCT7	TY-2482_chromosome	-	3834997	3835524	10166.87717	10032.9413	9922.606483	8522.711497	11348.51387	8033.536672	0.105179326	0.108296343	0.0796836
B7LCT8	TY-2482_chromosome	+	3835834	3836787	96.52442047	72.01754242	107.333474	189.0559774	118.1367981	159.1591413	-0.696434314	3.075751381	2.6269918
B7LCT9	TY-2482_chromosome	+	3837100	3838599	101.0556971	86.15536511	97.0789156	143.6401294	89.91863236	130.0968876	-0.339276746	0.958093651	0.7669002
B7LCT6	TY-2482_chromosome	+	3838616	3839635	63.14019908	51.8161821	43.1491422	48.05779813	31.68495634	56.10859413	0.232343502	0.402526225	0.3054735
B7LCU0	TY-2482_chromosome	+	3839625	3840617	74.26750275	55.64822611	63.9730426	77.92620193	85.54472633	90.64122378	-0.315960085	1.075576217	0.8684772
B7LCU2	TY-2482_chromosome	-	3840656	3841651	3298.875041	2816.543153	3043.644826	3366.005406	3398.951856	4672.449586	-0.233772771	0.421232694	0.3209554
B7LCU3	TY-2482_chromosome	+	3841827	3843197	1691.578916	1661.842003	1748.356302	3425.644918	3001.28986	3235.111097	-0.920349071	2.071181386	1.734055
B7LCU1	TY-2482_chromosome	+	3843354	3843902	806.198947	735.1279123	822.0902354	736.5334296	843.6356559	870.7835579	0.005838364	0.100426357	0.0734368
B7LCU4	TY-2482_chromosome	+	3843996	3845345	2058.136313	1980.82305	1855.729813	2368.230156	2041.155684	2453.447395	-0.223089748	0.348370162	0.26294
B7LCU6	TY-2482_chromosome	+	3845531	3845914	1117.40616	1002.645706	1009.37609	1527.334735	1658.121129	1697.052107	-0.610702647	2.762388504	2.3499264
B7LCU7	TY-2482_chromosome	-	3845965	3846426	330.6422768	297.0031097	310.922854	590.4789914	788.1573514	816.7043094	-1.153449163	8.193778931	7.3552913
B7LCU8	TY-2482_chromosome	-	3846587	3848722	2211.41331	2217.40569	1988.394212	3624.036563	3806.664707	5194.722674	-0.937304309	0.402526225	1.7796313
B7LCU5	TY-2482_chromosome	-	3849128	3850780	18031.96879	16645.54594	17150.87109	30688.73869	19282.89222	26556.9137	-0.577932768	0.74710426	0.5908681
B7LCV0	TY-2482_chromosome	-	3850833	3852251	19525.28	19589.32239	20167.56699	48499.78776	32756.24431	40048.68414	-1.064644848	1.835892211	1.5289221
B7LCV1	TY-2482_chromosome	-	3852373	3853317	836.0917335	882.6930061	757.6866981	279.8636072	294.0121716	229.3048885	1.560550762	13.87537654	12.773538
B7LCV2	TY-2482_chromosome	+	3853696	3856389	470.4718689	440.8361379	435.6415249	1339.921118	1082.855334	1311.547429	-1.471791003	12.94592113	11.876525
B7LF78	TY-2482_chromosome	-	3856623	3857600	545.7982203	609.7614754	566.4167823	583.0904496	464.8696313	734.7986195	-0.039758888	0.085686491	0.0626281
Q1R311	TY-2482_chromosome	+	3857970	3858431	5475.116066	4694.115197	4852.606671	3396.999184	3490.003413	4104.408227	0.505223365	0.653496583	0.5112148
B7LCV5	TY-2482_chromosome	-	3858339	3858797	591.730761	505.8019805	519.4711979	355.9066662	311.1357193	404.8785444	0.635231862	2.41237074	2.0399305
B7LCV3	TY-2482_chromosome	-	3858813	3859745	930.4919466	786.7711004	838.4226522	540.1796182	501.3111588	753.1521584	0.595586756	1.776694581	1.4777121
B7LCV8	TY-2482_chromosome	-	3860167	3860559	55.37510023	58.50476905	47.93195342	44.79528529	47.3936471	32.018418	0.300704851	0.849556898	0.6762164
B7LCV9	TY-2482_chromosome	-	3860693	3861403	89.00642917	94.54848159	79.64161545	71.26829932	92.00032802	79.01042818	0.098556632	0.223074068	0.1652452
B7LCV6	TY-2482_chromosome	+	3861474	3862064	154.8493191	147.1642393	147.1574748	110.338326	115.6118872	100.19661	0.453954706	1.765098896	1.4678586
B7LCW1	TY-2482_chromosome	+	3862212	3862661	194.0731604	278.4909921	233.6847266	119.4036505	125.5900731	126.2761036	0.858735105	5.009073054	4.3847567
B7LCW4	TY-2482_chromosome	-	3864452	3865453	470.4376388	478.5808717	419.6559713	667.4016013	613.3521303	596.1256489	-0.500792835	1.629768471	1.350815
B7LCW5	TY-2482_chromosome	+	3865615	3866028	1709.200377	2257.59529	2135.319921	1634.303019	2187.023344	1556.749589	0.136225767	0.301291642	0.253327
B7LCW6	TY-2482_chromosome	-	3866080	3866580	184.1148576	170.1388894	156.2291333	865.01524423	123.9445396	84.53292875	0.795587157	3.837622374	3.2089321
B7LCW8	TY-2482_chromosome	-	3868028	3870880	5997.207255	4841.196906	4982.602022	10961.28423	10067.80708	12965.00458	-1.046533756	2.298668216	1.9375204
Q8Z117	TY-2482_chromosome	-	3870883	3871362	559.6698316	464.4697683	446.6979428	806.4462646	706.1022977	894.3292922	-0.680008569	3.206019446	2.7434025
B7LCX0	TY-2482_chromosome	-	3871460	3872968	2747.560071	2535.65573	2880.750457	3474.793228	2926.616259	3733.448023	-0.268970524	0.415312885	0.3164717
B7LCX1	TY-2482_chromosome	+	3873235	3874332	1443.873002	1602.084074	1689.061095	1243.642236	1181.322992	1432.493815	0.6829761376	0.68296422	0.355383
B7LCX2	TY-2482_chromosome	+	3874335	3875414	1475.567083	1416.766614	1338.119112	1338.331259	1369.625543	1372.188397	0.050347591	0.09834409	0.0723659
B7LCX3	TY-2482_chromosome	-	3875539	3877038	410.3463589	460.969088	487.4469127	472.1135292	376.5977889	590.1028448	-0.04813644	0.151360567	0.1104814
B7LCW9	TY-2482_chromosome	-	3877119	3878114	83.74396821	82.66415143	83.8380774	147.561591	118.2604117	109.5183247	-0.627161171	2.317072983	1.9546118
B7LCX5	TY-2482_chromosome	-	3878184	3879500	169.1471113	171.5893547	131.5961056	130.1173958	139.3122134	104.34034	0.258830447	0.951698696	0.7623223
B7LCX6	TY-2482_chromosome	-	3879568	3880329	40.96536264	50.5482078	44.85717266	132.6075173	89.98107054	98.88080477	-1.327671183	6.917807956	6.1674832
B7LCX7	TY-2482_chromosome	-	3880356	3881384	34.67555373	24.42471923	26.21494058	156.4070081	105.469568	101.7063464	-2.113762955	15.30662835	15.175828
B7LCX4	TY-2482_chromosome	+	3881601	3882161	28.5782066	31.72281258	17.2612488	59.42603727	53.70840389	41.20416317	-1.142257824	3.469199553	2.977617
B7LCX9	TY-2482_chromosome	-	3882171	3883187	384.8965824	425.2924516	480.3017282	1205.771173	1096.547352	1253.649312	-1.443333242	12.39362654	11.347065
B7LCY0	TY-2482_chromosome	-	3883265	3883468	464.6193484	519.7944821	277.69107	177.9955645	743.5256699	136.8851859	0.125614218	0.285642509	0.213334
leuX	TY-2482_chromosome	+	3883383	3883467	460.911695	504.495864	270.4203278	170.7563814	734.4495363	126.3894444	0.135444233	0.287823167	0.2150648

B7LDP4	TY-2482_chromosome	-	3883620	3884624	66.5289501	71.54182078	63.22689035	42.55056805	48.27012528	43.49711777	0.557243582	1.914552993	1.597235
B7LDP5	TY-2482_chromosome	-	3884536	3886152	89.86838192	78.06736	81.11808168	50.40018875	59.20811518	51.42095446	0.653889868	2.460504125	2.0812814
B7LDP6	TY-2482_chromosome	-	3886165	3887496	33.46290591	53.13308604	29.92987728	19.99924021	33.84572836	20.04153541	0.505548258	1.38449959	1.1355937
B7LDP8	TY-2482_chromosome	-	3888117	3888986	236.9877521	220.2592611	272.3223483	103.0571913	131.9088367	187.3038474	0.929313042	3.269454377	2.7973474
E1U309	TY-2482_chromosome	-	3889668	3890362	183.0263665	203.4344579	214.7482171	93.51353998	135.7595867	98.91891935	0.883698889	4.526515053	3.9434457
B7LDQ2	TY-2482_chromosome	+	3891282	3891575	36.87669708	65.02426458	61.03467777	45.2417877	63.92830085	28.3432262	0.13190832	0.36033404	0.2721147
B7LDQ7	TY-2482_chromosome	+	3892628	3893701	1116.46283	1222.620589	1074.012399	472.5584948	557.9121023	526.2343515	1.114325893	8.102067292	7.2704444
B7LDQ8	TY-2482_chromosome	-	3893758	3894384	645.500731	600.4448963	575.5470489	212.3319072	329.6739047	209.6158825	1.281170573	7.850450166	7.0423629
E1U309	TY-2482_chromosome	+	3894426	3895120	150.4113378	158.4572477	119.0546356	49.77342706	50.94017424	56.43607793	1.403616109	10.91671149	9.9466747
B7LDQ5	TY-2482_chromosome	-	3895298	3896119	1488.209441	1417.290273	1496.121511	1276.664237	1274.978383	1255.152535	0.222543445	0.520716378	0.4008232
B7LDR2	TY-2482_chromosome	+	3896246	3897838	350.9161304	324.5327316	286.8815115	124.9410565	165.687142	165.5693837	1.106857349	6.570757111	5.8418511
B7LDR3	TY-2482_chromosome	+	3897841	3898527	92.61466581	97.983233	102.4340071	61.26623212	45.38456482	61.65266159	0.799379006	3.59126044	3.0875544
B7LDR4	TY-2482_chromosome	+	3898591	3898803	532.331207	627.0535176	525.9998522	177.8185114	347.0142041	231.7782532	1.14185917	5.917258871	5.2287248
B7LDR5	TY-2482_chromosome	+	3898785	3899003	314.7665917	292.3897551	360.1318048	138.6167863	214.9193021	180.2309918	0.944603987	4.226738732	3.6698268
E5ZNX5	TY-2482_chromosome	+	3898904	3899209	259.4818849	215.9560873	299.5042139	106.5864263	141.122982	136.6848369	1.126417575	5.637201836	4.9712833
B3IA39	TY-2482_chromosome	+	3899580	3900001	149.4266877	164.5756094	163.7898946	40.25507281	54.64820287	56.34843443	1.693856226	14.57838692	13.458117
B7UHC5	TY-2482_chromosome	-	3900094	3900648	138.3124287	158.2283229	123.8023164	42.39251368	62.04987726	39.8261027	1.476416488	11.25476106	10.266588
B7LDS0	TY-2482_chromosome	-	3900779	3901807	456.2694018	415.400744	430.4197414	446.253941	447.8365523	295.3636414	0.090374661	0.257683817	0.1918458
B7LDS1	TY-2482_chromosome	+	3902078	3902518	38.68390664	41.76546109	50.48945174	47.88829631	42.69791738	55.00741655	-0.108028022	0.239793455	0.1778139
B7LDS2	TY-2482_chromosome	+	3902537	3902821	54.95245571	78.68351464	77.48426222	63.04737983	54.52073027	69.50430955	0.14860438	0.316171277	0.2373338
B7LDR9	TY-2482_chromosome	+	3902837	3904090	473.4438421	458.5499984	435.6005072	411.8021955	424.1164865	372.5415036	0.158009159	0.415434378	0.3164737
B7LDS3	TY-2482_chromosome	-	3904343	3904594	77.05715687	65.77861635	80.71021483	22.55806986	42.09674251	21.47538047	1.425209927	6.841888719	6.0963569
B7LDS6	TY-2482_chromosome	-	3905019	3906029	240.6668827	277.2195206	248.8113046	151.382444	174.742892	184.0037229	0.580937032	2.386094562	2.0149982
B7LDS7	TY-2482_chromosome	-	3906044	3907357	141.1991395	171.0602529	141.0962333	167.1225376	117.2462317	161.6309178	-0.044733544	0.022307568	0.0152083
B7LDS8	TY-2482_chromosome	-	3907388	3908332	96.40102842	98.11794633	102.3965383	191.3501488	151.0957107	87.72858666	-0.634878781	1.575187881	1.3026978
B7LDS4	TY-2482_chromosome	+	3908608	3909390	275.9014164	300.5618424	264.5729816	112.5673193	145.6819097	134.1551186	1.092508519	6.967846971	6.2159127
D3GWZ4	TY-2482_chromosome	-	3909398	3909645	83.91027405	77.32829853	69.0565571	44.03402381	52.91199733	30.79117657	0.799575342	3.339676877	2.8601702
C1HR96	TY-2482_chromosome	-	3909624	3909821	95.20792493	78.13835503	77.69776465	46.47052857	64.79744087	36.05361271	0.763232825	2.814965637	2.3959196
Q8FKR7	TY-2482_chromosome	+	3910175	3910498	59.91415867	56.74799884	52.63935431	17.36861311	29.2730007	18.64972703	1.376590675	6.585010941	5.8540612
B7LDT2	TY-2482_chromosome	-	3910580	3912190	288.7665902	275.621964	254.6366812	139.3499455	134.6949341	121.2548342	1.020847253	6.582162049	5.8517241
B7LB70	TY-2482_chromosome	-	3912224	3912571	50.92931097	44.59269281	48.17223029	31.17226	41.00298561	39.37986819	0.422226678	0.871385563	0.6949135
B7LX21	TY-2482_chromosome	-	3912571	3912993	122.0869411	101.4750928	106.1755206	55.08567629	57.33659121	56.58871277	0.994724719	5.430967355	4.7769939
D3GX00	TY-2482_chromosome	+	3913084	3913380	99.43427013	102.8358403	97.63068659	30.74169448	39.23808292	26.63364153	1.604543977	11.57818392	10.57685
B7LDT4	TY-2482_chromosome	-	3913444	3914124	715.592645	734.3261163	767.2706616	304.703884	324.934142	280.4466567	1.278711451	9.730860515	8.8173701
E9WYU6	TY-2482_chromosome	-	3914164	3915503	645.9389331	774.0898244	691.1880461	594.8919042	561.4304098	674.6495136	0.181312612	0.50601594	0.3892468
B7LDT5	TY-2482_chromosome	-	3915686	3917686	3231.418287	3101.796757	3241.771116	3669.041386	3177.778025	4375.283285	-0.187766851	0.278137764	0.2079595
B7LDT8	TY-2482_chromosome	-	3917837	3918973	241.4410552	252.5618901	263.5282294	248.225512	206.5929326	148.0082678	0.257300437	0.874970541	0.6982127
B7LDT9	TY-2482_chromosome	-	3919157	3920098	485.9007019	560.87444	542.7569523	777.4422635	719.0095075	466.4807097	-0.399677273	0.761095597	0.6027124
B7LDU0	TY-2482_chromosome	-	3920166	3921113	569.7208419	587.7152646	645.8988164	1108.860502	1185.029274	696.7530015	-0.776640481	3.107557375	2.6539573
B7LDT7	TY-2482_chromosome	-	3921121	3922206	815.0901754	821.9136166	846.4584412	1283.546071	1422.588053	759.9998688	-0.543607378	1.519965521	1.2522606
Q9X692	TY-2482_chromosome	-	3922212	3923051	1170.202917	1356.470648	1237.212131	1407.725266	1651.089627	678.6795303	-0.111508735	0.013175276	0.0084874
Q6Q6S9	TY-2482_chromosome	+	3923237	3924017	134.6797748	119.454268	131.4121301	162.1858087	110.008369	119.9470133	-0.046138462	0.032597202	0.0222942
P71290	TY-2482_chromosome	-	3924236	3924541	359.7948525	315.3948026	351.953278	511.7844123	402.1214104	512.9054254	-0.442191485	1.632137437	1.352641
B7LBU5	TY-2482_chromosome	+	3924612	3926132	1151.67199	1103.023236	1166.673742	1928.284916	1617.066513	1935.132425	-0.665676993	3.021016697	2.5786283
Q0T2D8	TY-2482_chromosome	+	3926150	3926700	115.2341364	106.1593794	108.8792329	82.02768052	88.3080386	79.07350268	0.413696263	1.433890836	1.1788526
B7LDU8	TY-2482_chromosome	+	3926630	3927040	160.086263	159.4689139	145.0576229	65.47074438	80.16500078	65.94749663	1.120263123	7.58733729	6.7966361
B7LDU9	TY-2482_chromosome	-	3927604	3928368	869.1113142	758.3478201	818.011566	228.5677283	150.8382418	1929944586	1.929944586	14.64244437	13.517125
B7LDV1	TY-2482_chromosome	-	3928372	3929325	909.44823	891.0494759	811.8660151	310.0350503	236.4535124	356.0664889	1.538456665	11.60835127	10.605104
B7LDV0	TY-2482_chromosome	-	3929325	3930320	1216.126072	1102.938869	1079.979621	412.3391277	362.0907197	487.6874691	1.462840926	11.89804111	10.879177
B7LDV3	TY-2482_chromosome	-	3930320	3931219	1966.899803	1854.884746	1811.552767	730.0659511	697.923002	911.2803676	1.306133709	8.701264603	7.8384933
B7LDV4	TY-2482_chromosome	-	3931267	3933588	4288.178893	3967.383953	4097.374438	2111.249105	1776.27321	2658.26665	0.968853273	1.922843092	1.6039416
B7LDV5	TY-2482_chromosome	-	3933678	3934628	270.7430504	304.712224	221.3648922	69.67203618	67.33703598	64.57710216	1.895532808	19.20956325	17.9446669
B7LDV2	TY-2482_chromosome	-	3934628	3935146	284.3868251	269.9312769	216.1013648	47.79508756	58.32977563	44.97020515	2.309260556	25.4694895	24.055657
B3Y1Q0	TY-2482_chromosome	+	3936028	3936318	41.58936379	55.71636111	53.61795446	7.193327062	12.9327062	0.346585397	2.71830433	15.27447501	14.129677
B7LDV8	TY-2482_chromosome	+	3937057	3938427	564.6249105	564.0799763	543.9354253	675.9711965	548.6596608	657.7037971	-0.184070747	0.389889479	0.2953282
B7LDV9	TY-2482_chromosome	-	3938672	3940054	356.1856146	304.7160948	300.8650226	169.2633457	186.5851017	180.243673	0.868797342	4.594772626	4.0065723
Q8XC14	TY-2482_chromosome	-	3940107	3940676	29.71449842	37.8253644	35.03341818	28.65543655	32.76436107	35.37165413	0.07496635	0.106684573	0.0788787

E3PBJ5	TY-2482_chromosome	-	3943081	3943359	70.03019988	45.45592426	46.52214873	17.66271761	59.72832873	8.835490562	0.930441865	1.660787481	1.3772883
B7LDW9	TY-2482_chromosome	+	3945535	3945729	75.51410369	54.37412019	92.99636766	70.61886014	66.48070049	45.27430802	0.347790458	0.628882527	0.4904133
C1HRB5	TY-2482_chromosome	-	3946219	3946431	246.2665597	426.2980903	316.7852649	186.7967999	197.6037048	117.8096433	0.789100737	4.22327471	3.6667057
B7LDX0	TY-2482_chromosome	+	3946564	3947238	277.3648037	315.6221256	266.5175738	274.7330276	295.8886113	186.1678549	0.084365561	0.389041244	0.2951892
E1U309	TY-2482_chromosome	-	3947255	3947999	171.1816228	189.7713002	167.5449682	59.1109922	67.43398297	47.75118705	1.538190262	13.65563703	12.662139
B7LDX4	TY-2482_chromosome	-	3948351	3949691	238.0866956	177.0983325	208.6058547	48.90530582	49.22599565	28.24688105	2.295911276	22.42763432	21.086352
B7LDX5	TY-2482_chromosome	+	3949771	3950076	57.18747524	40.05264009	42.00395892	92.94687163	57.14597471	93.09450982	-0.764506851	2.771914937	2.3585752
B7LDX2	TY-2482_chromosome	+	3950031	3951212	321.0007523	278.945223	279.7812442	802.5206667	588.6066397	992.6176948	-1.387212375	9.566369909	8.6636604
B7LDX7	TY-2482_chromosome	+	3951296	3952753	461.8302443	331.5874387	359.6139069	855.6349568	652.3156497	1104.388242	-1.08677914	6.474264917	5.7524372
A8A849	TY-2482_chromosome	-	3952781	3952972	161.8397946	160.5729661	97.59748606	102.2113932	111.0175038	120.8564436	0.27163482	0.832824428	0.662734
B7LDX8	TY-2482_chromosome	+	3952971	3953741	943.8723719	893.9479419	845.5746276	538.3537616	567.8695697	586.6838206	0.67433064	3.084772226	2.6352096
B7LDX6	TY-2482_chromosome	+	3955387	3955776	90.9809839	121.8227535	101.5860324	29.14886421	27.33094603	18.82890266	1.939047351	15.26463006	14.121158
B7LDY2	TY-2482_chromosome	-	3955775	3956683	161.4792609	172.1315006	159.6746056	134.9234458	102.7296996	123.6320115	0.411171522	1.581040804	1.3074801
B7LDY3	TY-2482_chromosome	-	3956751	3957920	1150.192162	1041.81003	1199.798177	1729.88804	1514.245536	1775.937542	-0.525642346	2.220009278	1.8685873
B7LDY4	TY-2482_chromosome	-	3957936	3958394	167.6739807	128.2719585	163.8840847	161.0100575	151.9659661	146.170603	0.056165687	0.011106879	0.0072838
B7LDY6	TY-2482_chromosome	+	3959324	3959875	64.23598959	82.58118966	55.03522878	81.54578971	81.01888822	68.67866055	-0.322444277	0.457895256	0.0475556
B7LDY5	TY-2482_chromosome	-	3959894	3961069	134.7973739	100.009732	128.8670337	88.59085658	99.2573625	81.79812053	0.493981277	1.455128133	1.1958021
C8U0T1	TY-2482_chromosome	-	3961140	3962108	89.03109014	82.97522687	86.46800316	48.42628813	63.83938882	42.47374627	0.740999384	3.03203624	2.5885924
B7LDZ0	TY-2482_chromosome	-	3962065	3962319	59.10627981	59.11405036	54.65763253	27.54098593	33.77318536	21.43136142	1.021280077	4.489776303	3.9096119
B7LDY8	TY-2482_chromosome	-	3962319	3963083	65.12629401	61.98233668	59.28679545	32.26869804	26.37486675	20.14489938	1.156024243	5.793147256	5.1131645
B7LDZ2	TY-2482_chromosome	-	3963096	3964244	116.5890751	97.49709748	143.1047048	29.76666029	21.75277917	27.58324636	2.242599417	18.0952014	16.859102
B7LDZ3	TY-2482_chromosome	-	3964363	3965667	171.9538996	196.8821779	156.1686368	81.25068791	59.0681821	62.03673245	1.271747972	9.753769311	8.8371488
B7LDZ1	TY-2482_chromosome	-	3965684	3966913	249.645661	277.6636411	265.4012691	96.43643144	92.77428853	108.9930173	1.407088877	11.62195185	10.617745
B7LDZ5	TY-2482_chromosome	+	3967380	3968333	85.09287668	97.38563058	94.45096979	52.93704956	61.9087958	61.75396402	0.650899129	2.582195716	2.1903914
C6UPC5	TY-2482_chromosome	-	3968582	3969478	151.2410526	129.5988606	131.2370763	139.5919983	124.6856421	100.4189134	0.147300618	0.406537099	0.3085314
B7LDZ4	TY-2482_chromosome	-	3969459	3969938	79.23406865	77.70753288	82.58367987	64.68706202	73.7049518	83.92233226	0.158731523	0.213459537	0.1581238
Q659X8	TY-2482_chromosome	+	3970376	3972466	95.75900691	95.1829877	88.31799328	10.11833112	6.316927835	6.717895254	3.518434442	33.09106499	31.53209
B7LQL5	TY-2482_chromosome	-	3972519	3972914	36.66528197	38.19495576	32.82259186	21.36106271	16.03991792	18.83032851	0.467161007	1.033949495	0.8309699
B7LE00	TY-2482_chromosome	-	3973081	3974814	564.4911169	658.0942563	561.6748234	825.288073	678.0762614	306.4168528	-0.19973929	0.027188074	0.0182471
B7LE01	TY-2482_chromosome	-	3974817	3976319	354.4171676	375.6698617	353.13679	569.0845193	550.6464577	388.7109868	-0.55077536	1.577030036	1.3041834
B7LE02	TY-2482_chromosome	-	3976353	3978782	2090.905283	2260.79326	2013.539412	943.8732824	791.6552172	928.7260282	1.219769438	8.900505163	8.0264894
B7LE03	TY-2482_chromosome	+	3979039	3980709	1347.50502	1396.250869	1453.263097	1336.709372	1197.908361	112.1691115	0.466500946	0.88796477	0.7093445
B7LDZ9	TY-2482_chromosome	-	3980784	3981737	475.6277369	431.3671303	503.2728348	582.7649972	544.0628012	889.7855455	-0.40509564	1.628974909	1.3502023
B7LE04	TY-2482_chromosome	-	3981751	3982077	136.1858097	121.883659	130.0471284	289.0408294	313.8659352	479.3178089	-1.371734059	9.840863628	8.9187106
B7LE05	TY-2482_chromosome	-	3982085	3984208	542.1244869	508.5885056	603.7013588	7450.280809	6899.871316	10709.63768	-3.820051552	19.75519016	18.476056
B7LE07	TY-2482_chromosome	+	3984609	3986270	1344.545502	1373.059627	1407.000951	2369.624792	1824.508513	2499.359428	-0.689948364	3.057767921	2.6116743
B7LE06	TY-2482_chromosome	-	3986325	3987683	212.2855815	243.5464947	208.4511871	346.3745748	282.0359012	310.532693	-0.564680555	1.857853202	1.5483676
B7LE08	TY-2482_chromosome	-	3987901	3988812	390.4277058	368.7508475	370.979791	590.1252514	520.5457308	442.4506514	-0.495858821	1.596942382	1.3221294
B7LE10	TY-2482_chromosome	-	3990117	3992405	416.0115362	318.8433189	388.2903119	579.1288691	619.7704544	584.2050867	-0.601808924	2.944414839	2.5101199
C8UN70	TY-2482_chromosome	-	3992662	3993156	197.1071811	128.711099	157.695334	219.1121257	278.6016509	212.1006279	-0.477849166	1.91014053	1.5940065
B7LE12	TY-2482_chromosome	-	3993205	3993939	183.9876324	180.4408585	176.8613681	280.5477743	236.5253554	281.4189883	-0.563643131	2.246567656	1.890202
B7LEK9	TY-2482_chromosome	-	3993945	3994481	159.4087464	147.1090899	140.4494235	171.3549919	159.1962489	187.9377452	-0.19972553	0.533815732	0.4120374
B7LEL0	TY-2482_chromosome	-	3994591	3995076	146.7071768	134.2557836	127.8951237	26.08712191	20.00891393	13.61384734	2.695494677	28.23432098	27.763732
D3GY05	TY-2482_chromosome	-	3995055	3995885	344.8050212	325.00819	330.0608738	50.66304153	39.94020284	53.72920289	2.806058844	34.39093177	32.788491
B7LEL4	TY-2482_chromosome	-	3997844	3998629	218.4217916	264.7383844	153.0910941	33.01930497	27.25151368	29.0170396	2.683164926	27.95806346	26.510905
leuQ	TY-2482_chromosome	-	3999045	3999131	372.5607533	257.9882643	160.7263751	157.9550473	281.6565271	89.26244161	0.510092092	1.787300079	0.9637988
leuP	TY-2482_chromosome	-	3999166	3999252	1616.087977	1203.066178	797.9336275	304.996696	579.3224075	160.444463	1.71224519	1.1750302302	6.950095
leuQ	TY-2482_chromosome	-	3999281	3999367	1510.582557	1171.852597	763.6095442	189.4696114	352.7034088	93.34222867	2.344840268	12.909984	11.843924
B7LEL6	TY-2482_chromosome	-	3999679	4000707	579.8369707	452.4240417	505.6692764	941.5623801	1004.697898	1035.301464	-0.892489748	5.681096519	5.0094171
B7LEL7	TY-2482_chromosome	+	4000810	4001220	246.0615291	247.0955584	230.2708018	297.2591168	338.5727153	327.5617276	-0.410753382	1.433041924	1.1781879
B7LEL8	TY-2482_chromosome	+	4001192	4001635	327.5812689	304.6928529	327.5134653	468.0163579	471.351687	570.6391326	-0.600553079	2.860992056	2.3891929
A7ZVR4	TY-2482_chromosome	-	4002160	4003647	1362.674574	1262.516176	1229.20281	3012.219322	2869.310673	3649.124638	-1.271039457	3.916176828	3.3832873
A7ZVR6	TY-2482_chromosome	-	4004373	4005062	4544.262746	5635.374875	5978.729896	5871.759675	5929.89701	5795.342736	-0.135849985	0.127710538	0.0934769
B7LEM3	TY-2482_chromosome	+	4005418	4006488	187.9946995	259.3726398	279.0297008	549.8365227	455.8400134	545.8577058	-1.115592396	6.270575299	5.5620811
B7LEM4	TY-2482_chromosome	+	4006488	4007267	183.7429637	213.3976399	217.3619754	319.396306	237.3793393	323.3980081	-0.531820601	1.883582046	1.5705894
B7LEM5	TY-2482_chromosome	-	4007503	4008363	715.6129749	820.1796326	661.9139969	57.92401735	48.16004313	56.51104982	3.690497557	54.59100058	52.630625
B7LEM6	TY-2482_chromosome	-	4008338	4009885	2298.032399	2362.131814	2414.521169	150.5211881	123.6703464	152.4601232	4.051785711	66.36866505	64.186441

B7LEM7	TY-2482_chromosome	+	4010143	4010919	684.2751129	639.6589548	705.8878628	2523.857103	1935.514417	2895.185135	-1.810342425	16.73974533	15.539792
B7LEM8	TY-2482_chromosome	+	4011000	4012319	791.2597673	755.0618922	755.8967963	3943.851974	2521.518315	4489.567994	-2.226058594	9.711124267	8.7991904
B7LEM9	TY-2482_chromosome	+	4012374	4013594	2644.029896	1877.328191	2111.930715	6982.184101	5688.565545	8973.139791	-1.605744351	4.897483484	4.2822855
B7LENO	TY-2482_chromosome	+	4013677	4014393	3625.742136	2961.026256	3232.444407	4040.298775	4229.807975	6423.278257	-0.464163141	0.909959615	0.7270108
D3GY25	TY-2482_chromosome	-	4014560	4014821	79.67845476	130.0611239	84.16135426	71.27481719	51.76925896	61.85643798	0.498199298	1.27926394	1.7843097
B7LEN2	TY-2482_chromosome	-	4014855	4015868	517.1899313	628.0482491	660.4935715	549.7457784	464.0231506	583.89826	0.1740104	0.389405006	0.2952537
B7LEN3	TY-2482_chromosome	-	4015899	4016540	275.7923847	311.1402904	301.0898526	320.6479396	273.8533922	306.5115686	-0.049750305	0.037559515	0.0254137
B7LEN4	TY-2482_chromosome	+	4016646	4017611	469.5880297	476.6732115	485.2932844	860.8656677	774.3536651	1013.955197	-0.860149047	4.836685714	4.2257819
B7LEN5	TY-2482_chromosome	+	4017663	4019042	842.0074064	885.7643715	844.3685189	995.6609162	769.7456087	1130.978442	-0.167315372	4.020744803	0.305573
B7LEN6	TY-2482_chromosome	+	4019066	4020295	965.2403537	1132.617872	1096.049181	597.9861086	548.6302299	828.143009	0.723058306	3.107632473	2.6539573
B7LEN7	TY-2482_chromosome	-	4020608	4022272	5187.151729	4596.057226	4721.241668	8427.197743	7288.518058	8589.50841	-0.724473467	1.282826641	1.046399
B7LEN8	TY-2482_chromosome	+	4022483	4024417	1207.755018	1187.708339	1200.943963	2021.774127	1524.217777	1811.588813	-0.592513068	2.244563401	1.8888457
B7LEN9	TY-2482_chromosome	+	4024510	4024833	205.6809521	208.3344088	189.9682701	157.8551674	157.4997333	114.95387	0.426664133	1.749481124	1.4558106
B5Z4S6	TY-2482_chromosome	-	4024881	4025399	201.8830298	203.5969045	203.9960812	210.183472	231.2370816	175.3662588	-0.041887125	0.02503522	0.0167737
B7LEP1	TY-2482_chromosome	+	4025442	4026086	660.5785845	521.9562548	588.2281596	579.6681889	617.9137858	665.5330051	-0.003932597	0.136912982	0.1006098
B7LEP2	TY-2482_chromosome	+	4026089	4026955	3549.279508	3426.099083	3404.095004	2340.897012	2717.43881	2771.85528	0.437218167	0.593880405	0.4616489
B7LEP3	TY-2482_chromosome	+	4027166	4027636	330.4632638	342.6300619	347.9795939	409.9071731	342.9911934	420.8215816	-0.199744675	0.486038937	0.3728657
B7LEP4	TY-2482_chromosome	+	4027652	4028338	275.7201026	311.6310843	334.9677377	463.0386033	405.8004762	485.2866951	-0.546574119	2.146063161	1.8005847
B7LEP5	TY-2482_chromosome	+	4028341	4029762	265.3474378	295.6824739	282.5685991	260.8833892	227.4550554	244.7275717	0.170069929	0.502547276	0.3864002
B7LEP6	TY-2482_chromosome	+	4029823	4031172	74.60374579	87.0334936	84.56569347	54.62001814	59.23640208	39.92732379	0.618688163	2.431604701	2.5557864
B7LEP7	TY-2482_chromosome	-	4031238	4031951	5495.038355	5579.525172	5884.76702	4431.405359	4958.912306	4620.494993	0.291945728	0.337048682	0.253468
B7LEP9	TY-2482_chromosome	+	4032587	4033270	199.3965476	236.6607723	249.8036089	194.8263621	193.9504229	111.3081068	0.375210412	1.317426509	1.0772102
B7L4C7	TY-2482_chromosome	+	4033633	4036092	1358.776616	1370.510377	1395.752457	4289.893365	3134.042445	4687.108714	-1.539263442	4.691591792	4.0928877
B7L4C8	TY-2482_chromosome	+	4036097	4037026	906.3517626	904.3230972	918.3861961	2105.708017	1501.411677	2184.895351	-1.079755058	6.328350604	5.6149657
B7L4C9	TY-2482_chromosome	+	4037030	4038313	1267.569759	1252.119594	1276.230836	2978.430404	2350.536894	3030.95937	-1.133724688	4.642918032	4.0498983
A7ZVW4	TY-2482_chromosome	-	4038609	4039017	184.6467658	214.814827	170.0403459	206.7495472	249.4714616	184.5496726	-0.24583714	0.382229397	0.290152
B7L4D1	TY-2482_chromosome	-	4038983	4039756	672.3928346	596.0614592	652.9990914	659.790731	823.7203568	634.4203945	-0.113101086	0.310288219	0.2326647
B7L4D2	TY-2482_chromosome	-	4039829	4041256	872.5311147	1062.340406	919.5832552	107.1332298	135.5899863	165.2478728	2.820626583	33.22097735	31.658542
B7L4D3	TY-2482_chromosome	+	4041535	4042485	10045.93737	8385.446789	8810.057616	11863.60561	11924.37115	13261.21829	-0.396100636	0.584276456	0.4534619
B7L4D4	TY-2482_chromosome	+	4042603	4043187	1052.872079	1097.277979	1105.259382	744.4930402	799.0157183	860.2373439	0.457654562	1.659151999	1.3763833
B7L4D5	TY-2482_chromosome	-	4043228	4043791	354.3990401	393.1868975	345.7934462	191.8679219	178.3438736	179.0063454	0.944706434	6.167033769	5.4633759
B7L4D6	TY-2482_chromosome	-	4043943	4044653	32.64179306	51.36299031	35.43998965	34.5933945	29.13569103	18.93535014	0.341036912	1.038034651	0.8345993
B7L4D8	TY-2482_chromosome	+	4045460	4047373	9713.85477	8436.677682	8640.36942	22161.49182	17146.16081	21061.57493	-1.162966952	2.371472259	2.0019385
B7L4D9	TY-2482_chromosome	+	4047465	4048592	1731.633188	1343.244418	1320.155301	3153.126764	2495.238136	3182.2735	-0.980865005	2.613364622	2.2164701
D6I4R4	TY-2482_chromosome	-	4048702	4048941	1861.015873	1356.815588	1493.939609	739.3701198	1802.534174	540.5727676	0.649518108	1.366115058	1.1193979
B7L4E0	TY-2482_chromosome	+	4049437	4050600	1162.909451	1105.578647	1155.418503	886.4443832	995.6532214	877.6648167	0.325039802	0.904073287	0.7219936
B7L4E1	TY-2482_chromosome	+	4050663	4051565	253.3980843	255.6335385	288.7356812	259.9360103	265.7174678	282.7549357	0.01627261	0.026015181	0.017495
Q1RGI0	TY-2482_chromosome	+	4055974	4056306	6365.01639	5970.679113	5330.431859	2518.263132	6212.568121	2471.614565	0.653787319	0.947787662	0.7587055
B7L4E6	TY-2482_chromosome	+	4056427	4056642	272.1980103	297.6889785	245.9805714	245.7191503	472.7542513	191.6731108	-0.222798641	0.25769951	0.1918458
B7L4E7	TY-2482_chromosome	+	4056653	4057591	1799.261174	1833.96611	1810.328892	2812.932653	2550.842455	2537.946736	-0.559687304	0.977483422	0.7833719
B7L4E8	TY-2482_chromosome	+	4057637	4060450	8696.774622	7740.992384	7736.486149	18421.99127	14237.61617	19109.03104	-1.081899937	2.170262773	1.822671
B7L4E9	TY-2482_chromosome	+	4060453	4060944	1819.632022	1626.027969	1641.882262	2944.726092	2739.192908	3161.248629	-0.772497068	1.666753018	1.3816056
B7L4F0	TY-2482_chromosome	+	4061035	4061481	1020.846792	1017.209753	932.7158613	1640.046526	1273.030864	1656.144056	-0.638364977	5.11400869	2.1261689
B7L4F1	TY-2482_chromosome	+	4061486	4062433	1185.311419	1235.892951	1122.887951	1856.755151	1507.850201	1825.947457	-0.579067827	2.11796395	1.7758457
B7L4F2	TY-2482_chromosome	+	4062502	4063413	596.8830359	574.283627	519.3540125	594.3403434	463.9642214	705.9582667	-0.048831722	0.107652768	0.0792433
B7L4F3	TY-2482_chromosome	+	4063583	4064401	1057.192028	1241.041874	1259.884637	792.4181909	808.0741149	973.2102221	0.485851514	1.617982011	1.3406534
B7L4F4	TY-2482_chromosome	+	4064860	4066005	2865.062451	2786.859035	2527.137824	183.7375755	159.1321781	233.6420736	3.848699615	56.61908453	54.593207
B7L4F5	TY-2482_chromosome	+	4066026	4069244	19907.52925	18842.49709	18956.59202	712.9802274	603.2010195	978.0601144	4.712868665	22.9170082	21.560859
B7L4F6	TY-2482_chromosome	-	4069258	4069473	188.9842806	137.5650327	120.2940463	11.43013712	6.285622862	9.22106336	4.027149484	40.63905762	38.909131
C3TRD2	TY-2482_chromosome	+	4069403	4069900	349.2818217	317.7656554	349.9858249	49.26692551	55.59380992	39.83347584	2.814061353	34.83760524	33.21965
B7L4F8	TY-2482_chromosome	-	4069992	4070579	85.81523758	102.2316828	95.74612988	33.87035399	43.74980257	38.19669752	1.277634749	7.706261008	6.9096429
B7L4F9	TY-2482_chromosome	-	4070588	4071478	72.89995158	95.03846649	107.3748858	52.29072198	49.96550414	71.86077791	0.705434016	2.376800688	2.0065979
B7L4G0	TY-2482_chromosome	-	4071482	4073032	123.2676554	138.4954853	130.0323426	133.213423	94.54713666	100.2107194	0.184615215	0.634566472	0.4949176
B7L4G1	TY-2482_chromosome	-	4073109	4074323	67.35324434	64.57732805	62.61326663	55.65874224	52.71127381	69.38015966	0.161057307	0.23713185	0.1755911
B7L4G2	TY-2482_chromosome	-	4074455	4075594	294.8069799	282.9459782	237.9766422	59.71143805	54.53833789	66.88941006	2.158650435	23.11428974	21.751609
B7L4G3	TY-2482_chromosome	-	4075628	4077139	25.51909477	21.36109768	23.04767902	31.21628793	18.05741096	28.80002418	-0.146783366	0.190482655	0.140518
B5YYD5	TY-2482_chromosome	+	4077550	4078380	25.99164625	32.75943997	30.40637486	28.99861126	18.96769227	33.81876951	0.108221836	0.140269508	0.1032424

B7L4G5	TY-2482_chromosome	+	4078398	4079336	38.89948404	25.82022306	46.67405397	35.12951635	26.32594136	27.7726408	0.407762315	0.628637705	0.4902993
B7L4G6	TY-2482_chromosome	+	4079390	4080673	42.54844147	46.10939285	44.2112554	48.29252807	35.4083955	39.57050359	0.061611701	0.127744976	0.0934769
B7L4G8	TY-2482_chromosome	+	4081019	4082347	14.00870623	23.48302039	14.99750716	37.92021441	29.09524814	22.78833212	-0.962459983	1.837653488	1.5304904
B7L4G9	TY-2482_chromosome	+	4082458	4082985	79.32495287	81.78939696	68.38982144	69.29221059	70.9135974	96.85279658	-0.03061324	0.063379848	0.044615
B7L4H0	TY-2482_chromosome	+	4082981	4084840	337.2114157	352.7043294	343.2857792	383.9620743	376.6902042	475.8600315	-0.234941158	0.679570053	0.5331824
B5YZB4	TY-2482_chromosome	+	4084924	4085511	323.1654079	264.5429707	327.6523308	377.5501234	427.8070674	342.3580445	-0.279624936	0.936661726	0.7494872
B7L4H2	TY-2482_chromosome	-	4085595	4086434	735.0755755	747.0844835	753.3316275	869.2758964	778.872686	1153.161603	-0.278945015	0.955561729	0.7655962
B7L4H3	TY-2482_chromosome	-	4086444	4086818	798.0150873	770.2209563	728.732038	848.8943647	788.9003992	1121.631846	-0.224948844	0.723233543	0.5697159
B7L4H4	TY-2482_chromosome	-	4086824	4087642	2218.087499	2233.156391	2148.307149	2740.238222	2632.679186	3612.12176	-0.40763977	0.679941218	0.5334133
B7L4H5	TY-2482_chromosome	-	4087642	4088628	2144.253375	1957.703443	1750.61774	2796.742124	2842.036139	3443.920673	-0.609653753	1.141893691	0.9256545
B7L4H6	TY-2482_chromosome	-	4088631	4089914	4894.753012	4271.663517	4484.243747	10311.15519	10236.22911	11104.98542	-1.177126955	2.744447817	2.3352781
B7L4H7	TY-2482_chromosome	-	4089970	4092321	4572.337877	4338.083416	4375.312418	7392.116056	6896.320551	7601.533236	-0.709060922	1.237637092	1.0069121
B7L4H8	TY-2482_chromosome	+	4092576	4093388	636.9767468	718.2218993	713.1265114	646.103299	739.0401282	612.0009586	0.029454896	0.09491957	0.0695471
B7L4H9	TY-2482_chromosome	-	4093511	4094167	601.2691823	607.7102305	572.292078	461.1520208	584.279021	635.1024599	0.122742493	0.160064336	0.1172992
B7L4I0	TY-2482_chromosome	-	4094182	4097085	1253.717821	992.878958	988.7627492	1678.323778	1609.783042	2193.906853	-0.690048583	3.35055434	2.86961
B7L4I1	TY-2482_chromosome	-	4097253	4099601	835.9913194	896.029402	862.8922547	761.8526612	664.2512228	799.7079725	0.212374109	0.591940401	0.4599668
B7L4I2	TY-2482_chromosome	-	4099679	4100371	25.33876453	24.03809019	29.91251255	40.58801509	30.78781188	57.22442466	-0.606754843	1.743470689	1.4503612
B7L4I3	TY-2482_chromosome	-	4100543	4102042	85.95734171	92.22269889	83.72669197	122.2428215	86.27690682	142.8844768	-0.426344278	1.274841697	1.0397241
B7L4I4	TY-2482_chromosome	-	4102056	4103753	39.81698527	27.57707361	36.35435418	73.99642773	53.6038044	58.048749	-0.802553969	3.047896637	2.6028649
D2NB21	TY-2482_chromosome	+	4103875	4104096	74.75635634	70.33168921	79.34182444	111.0822111	109.2188279	97.56702124	-0.493324555	1.892186476	1.5780185
B5YZA0	TY-2482_chromosome	+	4104041	4104967	298.2598382	331.7070809	314.2415845	501.6687497	390.3589576	354.3061749	-0.479377368	1.241080407	1.0097795
B7L4I6	TY-2482_chromosome	+	4105056	4105817	214.4241145	276.1367656	219.6404378	216.4262206	258.5065657	243.3722911	-0.07251313	0.032273343	0.0220678
B7L4I7	TY-2482_chromosome	-	4105937	4106632	147.5932446	124.1955627	114.5651501	95.910214	141.1378763	140.5069829	0.096511275	0.059993106	0.042518
B7L4I8	TY-2482_chromosome	-	4106619	4108226	108.3507539	115.6923554	112.888793	149.2751301	182.9331786	202.2824203	-0.629431238	2.937760593	2.5039827
B7L4I9	TY-2482_chromosome	-	4108205	4109185	74.81918766	60.97631364	80.11759686	179.926605	161.9139189	195.8173943	-1.237930682	9.527379736	8.626946
B7L4J0	TY-2482_chromosome	-	4109352	4111004	266.544991	209.846783	212.3578847	173.2455933	164.651853	202.3145598	0.403114123	1.054805421	0.8498473
B7L4J1	TY-2482_chromosome	+	4111326	4112501	269.09706	295.7933031	285.878372	123.4052264	117.3480474	134.0411521	1.176971941	8.184332457	7.3465004
B7L4J2	TY-2482_chromosome	-	4112556	4113158	196.6647856	191.0689347	200.7460418	152.1143708	158.3109018	186.5226531	0.28774707	0.670900733	0.5253052
B7L4J3	TY-2482_chromosome	-	4113172	4114569	305.0736136	294.3600727	325.6248854	294.4337143	198.1957588	320.5509234	0.21920437	0.401946107	0.3050123
B7LFU4	TY-2482_chromosome	-	4114575	4115663	242.404776	214.6741244	227.7431495	199.8970294	145.4630037	199.7475826	0.349393844	0.943129903	0.755076
B7LFU5	TY-2482_chromosome	+	4115666	4117234	255.7776641	225.490777	270.889445	144.5950622	106.3177048	161.410112	0.928377115	4.281244197	3.7208882
B7LFU7	TY-2482_chromosome	+	4119014	4119014	52.62262845	39.74198026	40.71718134	54.42501751	39.0742503	34.59245669	0.022949261	0.063986591	0.0451224
B7LFU8	TY-2482_chromosome	+	4119335	4121056	256.5909999	254.6171782	222.8890722	281.669189	271.1510164	303.7659361	-0.234763421	0.568696345	0.4400625
B5YZB5	TY-2482_chromosome	+	4121032	4121550	117.5577719	110.642028	96.75855598	123.569997	104.5737532	124.8629791	-0.136021095	0.252017718	0.1875587
B7LFV0	TY-2482_chromosome	+	4121733	4122734	1595.207184	1458.70215	1546.92694	1799.658011	1413.190885	1760.148795	-0.097670294	0.233955641	0.1737286
E6A074	TY-2482_chromosome	+	4122903	4123103	50.13243072	59.78541136	38.47480784	38.25285802	38.26371012	27.99971898	0.370985441	1.201211089	0.974995
B7LFV1	TY-2482_chromosome	+	4123339	4123794	1081.888223	1261.609156	1263.812627	1004.677169	1152.207379	946.1811476	0.19341544	0.52502618	0.4043799
B7LFV2	TY-2482_chromosome	+	4123799	4124737	1906.95367	1870.521199	1981.431498	3027.456729	3209.786068	2907.66077	-0.659324638	1.250301254	1.0176812
B7LFV3	TY-2482_chromosome	+	4124737	4125099	725.6716616	583.4427596	613.204269	1061.923395	1096.637258	998.7153603	-0.691116301	3.62344681	3.1151644
B7LFV4	TY-2482_chromosome	+	4125118	4126881	2180.223176	2108.421336	1492.788305	1378.667404	2031.433731	1444.8582	0.204759364	0.579229896	0.4493146
B7LFV5	TY-2482_chromosome	+	4126871	4128355	3052.792398	2713.236652	2865.378513	3818.215588	3428.997601	4054.539426	-0.356806994	0.55536181	0.4296612
B7LFV6	TY-2482_chromosome	+	4128355	4129710	2365.561498	2125.630012	2104.675086	3440.003554	2840.152115	3699.222404	-0.576770178	1.032360766	0.8300095
B7LFV7	TY-2482_chromosome	+	4129707	4130786	1959.505725	1746.973378	1709.825222	2817.197954	2873.006625	3140.213776	-0.678258044	1.369635277	1.1227502
B7LFV8	TY-2482_chromosome	+	4130792	4132105	2979.406821	2890.377885	2918.198387	3567.327436	3125.929671	3932.091391	-0.253948763	0.351797226	0.2659034
B7LFV9	TY-2482_chromosome	+	4132108	4133349	1897.938094	2029.303907	1917.908257	1723.750876	1695.373571	1982.377551	0.117419316	0.183015765	0.1352872
B7LFW0	TY-2482_chromosome	+	4133349	4134413	1635.458313	1659.042372	1714.020005	1610.82585	1583.444989	1796.934937	0.027048452	0.008390637	0.0054068
B7LFW1	TY-2482_chromosome	+	4134470	4135942	3019.725165	3065.319436	3089.240646	3540.901746	3306.126271	4283.233909	-0.248182095	0.357927797	0.2704074
B7LFW2	TY-2482_chromosome	+	4135938	4136855	2015.253203	2286.699676	2201.240703	2494.256679	2230.457026	2657.346723	-0.19583978	0.224183002	0.1659191
B7LFW3	TY-2482_chromosome	+	4136860	4137687	1745.337171	1923.54854	1815.597706	1252.213952	1210.301858	1473.173844	0.482104348	1.735488995	1.4433128
B7LFW4	TY-2482_chromosome	+	4137687	4138946	2739.111714	3270.275598	3055.57217	3206.318402	2671.820883	3110.035017	-0.029066653	0.012020336	0.0078734
B7LFW5	TY-2482_chromosome	+	4139010	4140158	6433.534086	6684.511538	7142.564545	9079.353698	7071.864568	9811.506009	-0.338460916	0.448500519	0.3427952
B7LFW6	TY-2482_chromosome	+	4140262	4141176	10786.89277	9825.02851	10554.53342	12406.02789	13068.33288	13728.32685	-0.290440591	0.394676114	0.2991674
D6J5V7	TY-2482_chromosome	-	4141154	4141405	813.6747503	798.5984535	776.9974824	850.8666858	919.1430729	993.1010635	-0.187693735	0.56375278	0.4363967
B5YZD3	TY-2482_chromosome	+	4141335	4141919	1213.007304	1213.13138	1157.934116	893.2267207	1079.295011	1346.60639	0.169114441	0.217100729	0.2062492
B7LFW8	TY-2482_chromosome	+	4141984	4144686	4714.337715	4765.354526	4780.0887	5597.964881	4964.105127	10602.40322	-0.456029702	0.800481856	0.6362641
B7LFW9	TY-2482_chromosome	+	4144749	4145135	165.8061447	195.1302142	190.8879027	181.4836744	191.9429658	266.4355942	-0.173536906	0.488550466	0.3748883
C8TGN2	TY-2482_chromosome	-	4145241	4145435	305.8888616	306.3693331	287.0564364	258.6076368	286.7063537	263.209518	0.144936924	0.349138823	0.2635928

B7LFX0	TY-2482_chromosome	-	4145448	4146188	535.4368914	515.7467175	550.6974269	564.5727755	573.287995	670.6828574	-0.130907427	0.397598642	0.3016154
B7LFX1	TY-2482_chromosome	-	4146191	4146808	381.021695	533.7660032	468.7908696	237.7801108	225.6662998	231.5761428	0.922893457	5.660475712	4.9901347
B7LFX2	TY-2482_chromosome	+	4147033	4148073	1360.92875	1468.072161	1488.242097	1208.167146	1182.997689	1470.487589	0.186901666	0.358430819	0.2706776
B7LFX3	TY-2482_chromosome	-	4148114	4149313	50.01354331	51.74828544	54.88753195	42.38204846	50.9856238	52.48564331	0.139982647	0.18679062	0.1376792
B7LFX4	TY-2482_chromosome	-	4149306	4150688	28.89493793	46.27863743	32.16576578	48.46352114	32.67153445	34.43456332	-0.273059749	0.177033321	0.1303656
D6J5W8	TY-2482_chromosome	+	4151160	4151381	45.02461931	32.66158215	42.31977896	26.70466117	30.02962778	32.74293797	0.518703043	0.990336452	0.7944358
B7LFX6	TY-2482_chromosome	-	4151344	4152234	622.2575112	582.6674881	597.4675269	288.695979	299.3627838	357.5149938	0.97663622	5.360839435	4.7109447
B7LFX7	TY-2482_chromosome	+	4152322	4152870	738.6910209	768.1852505	879.7169148	607.1763044	683.4577954	716.842581	0.298944818	0.667755588	0.5229577
B7LFX8	TY-2482_chromosome	+	4152870	4153721	939.9180899	999.3259538	1010.21202	943.6546728	902.7225828	1015.504569	0.049950155	0.084646907	0.0621902
B7LFX9	TY-2482_chromosome	-	4153770	4155140	559.4380614	523.4362453	538.0502748	313.0940313	352.236274	321.0974472	0.734115026	3.381211197	2.8999788
B7LFY0	TY-2482_chromosome	+	4155681	4156442	1018.809155	820.4918084	878.6551959	1867.975729	2146.803222	2433.544538	-1.166413716	8.389719514	7.5419489
B7LFY1	TY-2482_chromosome	+	4156606	4159266	36570.11864	34086.43157	35832.2662	105358.611	75061.76162	123527.7415	-1.47102604	3.221193997	2.7566401
B7LFY2	TY-2482_chromosome	+	4159284	4161173	26654.72962	22096.41698	22496.65917	92046.97346	59849.32343	98406.19226	-1.780455401	4.317111584	3.7518875
B7LFY3	TY-2482_chromosome	+	4161501	4162922	25247.84342	24686.59945	23374.79872	65987.92726	53107.7523	69622.06438	-1.365353254	2.836623595	2.415073
B7LFY4	TY-2482_chromosome	-	4162999	4164753	188.3652981	198.2704419	198.7548676	223.2077493	164.6374985	163.4368543	0.029999524	0.158559323	0.1160042
B7LFY5	TY-2482_chromosome	+	4165108	4167702	25473.81451	20971.24488	23773.75516	26101.55983	19329.29783	32308.19003	-0.067539465	0.138633643	0.1019164
B7LFY6	TY-2482_chromosome	+	4167881	4168240	425.5132596	432.5669243	410.5557267	248.0654581	215.5483738	323.0463833	0.72001237	2.929262907	2.4965172
B7LFY7	TY-2482_chromosome	-	4168284	4169075	1568.07731	1679.406141	1733.218445	956.7062344	828.9240797	1201.919567	0.773094676	3.252393225	2.7836594
B7LFY8	TY-2482_chromosome	-	4169094	4169957	2166.405749	2228.22631	2297.01695	1313.326892	1222.115658	1537.61169	0.744109139	3.293395268	2.819875
B7LFY9	TY-2482_chromosome	-	4170066	4170581	238.339655	314.4908916	242.7131589	117.3148267	126.4839132	139.2580666	0.995144909	6.13676825	5.4355085
B7LFZ0	TY-2482_chromosome	+	4170576	4172123	448.6872467	450.809151	443.6237434	425.21478	330.24372	386.7760551	0.211802635	0.58855822	0.4571002
B7LFZ1	TY-2482_chromosome	-	4172176	4174563	857.6763361	883.7048026	923.0953575	2274.543373	2247.726595	3159.469609	-1.46748636	11.82878426	10.812891
B7LGP1	TY-2482_chromosome	+	4174769	4175302	1879.274804	1901.073515	1918.64358	1771.64021	2111.407371	1772.321397	0.01378666	0.014697979	0.0096252
B7LGI8	TY-2482_chromosome	+	4175349	4176008	1551.077453	1450.72524	1486.140677	3847.937753	5699.851528	4093.173508	-1.578210429	4.823451606	4.2133324
B7LGI9	TY-2482_chromosome	+	4176117	4177040	453.8153092	461.6195293	514.5247109	999.8021658	827.1599622	903.8731155	-0.932630743	5.356894572	4.7078489
B7LGJ0	TY-2482_chromosome	+	4177040	4177807	399.280284	374.6700635	448.5603358	705.9123368	696.1612667	744.55461	-0.763326223	4.081394581	3.5343187
B7LGJ1	TY-2482_chromosome	+	4177915	4178352	161.9686412	217.2880598	192.8003124	202.2236813	217.5448421	190.9462495	-0.158527118	0.193675295	0.1429626
B7LGJ2	TY-2482_chromosome	+	4178419	4179645	492.0187145	542.5281271	469.8819421	316.4517775	327.6207276	326.2760655	0.598114692	2.731736612	2.3245155
B7LGJ3	TY-2482_chromosome	-	4179655	4180032	882.2864101	975.9277073	977.8810052	939.3202131	1209.527363	1158.942965	-0.198528335	0.544580049	0.4204019
B7LGJ4	TY-2482_chromosome	+	4180306	4181205	93.17807352	120.1155532	117.0073494	47.48526748	58.2331583	70.62413271	0.930458103	4.313117506	3.7485923
B7LGJ5	TY-2482_chromosome	-	4181285	4182133	1668.439618	1648.618932	1616.176235	1951.11089	1953.876177	1933.997589	-0.246954922	0.645025561	0.5041939
B7LGJ6	TY-2482_chromosome	-	4182148	4182939	1226.413804	1190.675838	1297.474067	1004.788467	908.1569745	1074.666632	0.343655593	0.897602367	0.7173046
B7LGJ7	TY-2482_chromosome	-	4183055	4184326	43.50925453	41.046249	34.70903128	22.49959194	52.27459174	13.95654831	0.377148909	0.66210881	0.5179745
B7LGK4	TY-2482_chromosome	-	4190642	4191118	79.22928269	80.00827144	81.21401921	130.5659334	127.3590009	148.4531574	-0.73554888	3.690387022	3.1743685
B7LGK5	TY-2482_chromosome	-	4191118	4192533	1225.090728	1097.990663	1114.367565	2160.564744	1996.579079	2400.75041	-0.900250381	5.225196381	4.5841351
B7LGK6	TY-2482_chromosome	-	4192575	4193498	247.2574404	332.6943812	271.213275	268.5267648	261.1456094	289.3054833	-0.009296707	0.092154726	0.0677899
E7IEQ9	TY-2482_chromosome	-	4193468	4193990	3865.442958	4352.343436	4030.007403	3383.21719	3827.710861	3698.172949	0.15290613	0.189378757	0.1397342
B7LGK8	TY-2482_chromosome	+	4194171	4194872	982.3898653	1171.41474	1185.947383	1438.746502	1661.834888	1384.252436	-0.4460526	1.382924521	1.1341874
B7LGL0	TY-2482_chromosome	+	4195491	4197917	935.4257519	1042.485587	965.8504681	804.5072354	754.3890405	816.9377752	0.283240269	0.988056896	0.7926042
B7LGL1	TY-2482_chromosome	+	4198116	4200647	2022.32822	1706.430376	1851.255625	3141.157907	2821.089302	3254.693196	-0.685521987	1.412398652	1.1606139
B7LGL2	TY-2482_chromosome	+	4200870	4203110	2228.631732	2125.264167	2061.779874	299.2246205	370.4936535	301.4794403	2.726899864	35.27403612	33.644074
B7LGL3	TY-2482_chromosome	+	4203164	4203958	305.1678842	281.4856827	298.428383	108.2167913	98.18982038	133.7775953	1.430708399	10.35728407	9.411429
B7LGL4	TY-2482_chromosome	+	4203961	4204848	212.4739128	193.8052341	198.6597302	71.81462449	65.5202837	56.8568385	1.619578486	15.30839731	14.158254
B7LGL5	TY-2482_chromosome	+	4204848	4206827	410.7034992	403.7900104	332.3687971	133.4349768	138.3865541	106.9506038	1.533774158	13.37631766	12.29216
B7LGL6	TY-2482_chromosome	-	4206868	4208145	3462.663698	2909.408313	3194.853085	4240.320473	4351.844646	4708.439857	-0.421830107	0.716812483	0.5641072
B7LGL7	TY-2482_chromosome	+	4208370	4209788	892.031253	1008.92893	934.1715319	707.1726898	732.5864232	751.1652255	0.352102901	1.276563585	1.0411189
B7LGL8	TY-2482_chromosome	+	4210214	4210987	877.1694496	942.0451557	843.6094911	1731.950169	2548.326731	1909.184854	-1.228343041	7.65705719	6.8628712
B7LGL9	TY-2482_chromosome	-	4210267	4210887	254.924031	270.2760595	266.0724318	247.6486839	231.1189806	240.7744682	0.122419098	0.310447748	0.2327105
B7LGM0	TY-2482_chromosome	-	4210928	4211725	676.8239002	616.6386743	689.3808411	856.4265991	753.4432241	887.8852468	-0.297666095	1.032882487	0.8300547
B7LGM1	TY-2482_chromosome	-	4211721	4212416	2211.466905	2014.90602	2043.332825	2564.459578	2449.810234	2746.859282	-0.284066214	0.428882871	0.3272089
B7LGM2	TY-2482_chromosome	+	4212500	4214014	664.6936687	751.3302348	691.8548926	652.9502527	560.5199611	624.8906634	0.158051055	0.487147434	0.3737271
B7LGM3	TY-2482_chromosome	+	4214147	4215568	1445.51294	1417.327919	1551.68458	5633.188872	5306.415507	7030.181537	-1.969306345	7.045646904	6.288848
B7LGM4	TY-2482_chromosome	+	4215726	4216880	352.7090679	439.341526	412.7013776	413.2696781	367.6204605	372.4278204	0.008113842	0.113219203	0.0827057
B7LGM5	TY-2482_chromosome	-	4216975	4217358	959.4962746	965.7262392	901.7280627	653.868093	971.321602	491.5164914	0.373629659	1.192560157	0.9679431
B7LGM6	TY-2482_chromosome	-	4217676	4218497	4712.7248	4807.193087	5555.505247	4659.207238	5598.714509	4921.816215	0.026821767	0.009275279	0.005932
B7LGM7	TY-2482_chromosome	-	4218531	4221200	1474.036762	1383.781177	1432.024949	843.7115384	780.7239907	1046.767707	0.731928352	2.967999906	2.5311106
B7LGM8	TY-2482_chromosome	-	4221265	4222056	2388.394299	2755.479483	2683.250749	1970.551413	2350.726547	2151.064741	0.267882573	0.366514221	0.2773611

B7LGM9	TY-2482_chromosome	-	4222059	4222277	196.0087619	197.7791976	168.726683	204.1613179	174.7504442	124.3071449	0.059272614	0.323053284	0.2429194
tff	TY-2482_chromosome	+	4222262	4222397	12597.29	13249.64632	12577.39248	5785.17272	5843.469025	5146.927436	1.161963515	2.62208527	2.2241173
B7LGN0	TY-2482_chromosome	+	4222424	4223146	52036.8577	49142.2799	54878.85809	41893.35609	37119.1299	39263.24711	0.415509938	0.466325226	0.3567183
A1A7L4	TY-2482_chromosome	-	4223104	4224153	52612.68805	51586.27158	53992.06933	46642.30709	37438.52353	41226.16888	0.324423906	0.370626774	0.2807721
B7LGN2	TY-2482_chromosome	+	4224405	4225127	3545.262596	4161.90812	4143.751786	3068.543051	2459.780342	2728.635276	0.48067283	0.830244767	0.6505764
B7LGN3	TY-2482_chromosome	+	4225422	4225976	6454.564527	6272.700164	6745.708064	6393.789307	6952.837069	6257.206558	0.00528779	0.008855486	0.0056081
B7LGN4	TY-2482_chromosome	+	4226071	4227264	802.178253	1008.218946	893.2456292	1658.343606	1489.700874	1605.040961	-0.871693823	4.123134745	3.5730301
B7LGN5	TY-2482_chromosome	+	4227453	4228211	1066.34467	1097.375012	1115.168026	2336.033227	2209.577274	2261.57743	-1.059678846	6.673946341	5.9373262
B7LGN6	TY-2482_chromosome	+	4228227	4229081	1322.193495	1270.328048	1310.559057	2163.811023	2220.519352	2268.083734	-0.751123962	3.850327824	3.3209941
B7LGN7	TY-2482_chromosome	+	4229096	4230445	3015.238248	3129.405513	3015.888238	4120.689471	4972.601886	4345.584032	-0.554204603	0.889025222	0.7102614
B7LGN8	TY-2482_chromosome	+	4230478	4232907	10363.52432	10239.20208	10584.25058	24658.1738	21269.63777	25237.288	-1.180359891	2.413730107	2.0410654
B7LGN9	TY-2482_chromosome	+	4233032	4233514	8742.983545	8418.286191	8837.934242	14767.6846	15309.79694	15440.0335	-0.786978254	1.372987915	1.1257667
B7LGP0	TY-2482_chromosome	+	4233521	4234543	6999.08386	6430.01892	6832.77668	9466.063217	8938.4868	9561.844021	-0.442991059	0.645973612	0.5048408
Q14F34	TY-2482_chromosome	+	4234579	4235103	2550.878928	2473.200031	2554.453222	3241.537235	3328.97342	3261.448921	-0.364600179	0.54057753	0.4172917
B7LGP3	TY-2482_chromosome	+	4235110	4235895	4197.686927	4095.478659	3817.950841	5776.433899	6465.064318	5674.409102	-0.576597236	0.886889507	0.7086997
B7LGP4	TY-2482_chromosome	+	4235898	4237043	1616.148698	1593.128482	1498.603053	1689.046035	1643.518646	1775.988413	-0.125747079	0.293619188	0.1933957
B7LGP5	TY-2482_chromosome	+	4237043	4237636	601.3733781	513.9309585	583.7057924	681.4805041	646.9585895	845.5057679	-0.280369775	1.064364578	0.8583373
B7LGP6	TY-2482_chromosome	+	4237676	4241155	3794.608225	3539.673379	3582.360024	4515.444438	4680.368751	5193.843114	-0.365560446	0.557808062	0.4313441
B7LGP7	TY-2482_chromosome	+	4241171	4242127	3622.62827	3220.762282	3475.478455	4355.840288	4914.313933	4711.213191	-0.39740372	0.636019692	0.4961083
B7LGP8	TY-2482_chromosome	+	4242229	4244367	705.1017981	686.1874823	815.0197347	936.4123507	828.9515806	1092.894748	-0.313170124	1.224024426	0.9947538
B7LGP9	TY-2482_chromosome	+	4244427	4244813	224.417621	211.568083	209.8564553	295.2570318	326.7098091	347.1508039	-0.554342237	2.46182819	2.0823775
B7LGG0	TY-2482_chromosome	+	4244881	4246176	570.7199466	520.8196075	516.169235	494.0255409	430.3941428	464.430364	0.208471149	0.532003545	0.410477
B5Z0G8	TY-2482_chromosome	-	4246231	4246488	726.8226418	754.6947626	757.3043631	581.1157718	704.5203845	492.5047325	0.308304983	0.974158472	0.7806417
B7LGG2	TY-2482_chromosome	-	4246478	4246765	697.5676949	780.0390387	768.5632775	482.4973189	627.194411	426.716167	0.518985703	2.001136132	1.6730153
B7LGG3	TY-2482_chromosome	+	4246841	4247383	389.4925064	407.2359078	436.5654066	434.1655312	405.8502789	419.7091003	-0.028015759	0.053357719	0.0377608
B7LGG4	TY-2482_chromosome	+	4247383	4247802	365.0113037	310.6677305	374.5204596	461.0891482	372.0815211	506.1758749	-0.28667513	0.998308725	0.8009116
B7LGG5	TY-2482_chromosome	+	4247819	4248526	551.7442094	584.9720668	635.33852	933.2831386	818.96939	952.3777755	-0.598303323	2.674678241	2.2730112
B7LGF78	TY-2482_chromosome	+	4248779	4249756	565.3184789	574.4934325	577.7035814	575.8341589	476.7148921	728.2481916	-0.014805264	0.089982857	0.0965826
E7H755	TY-2482_chromosome	-	4250208	4250786	44.90032061	52.368297	35.22581953	46.85684281	39.08700523	39.601186	-0.031333078	0.067567918	0.048306
B7LHA4	TY-2482_chromosome	-	4250842	4252557	3555.390193	3053.41433	3237.062451	6147.634626	4911.399315	7063.084709	-0.83076683	1.712315431	1.4231126
B7LHA5	TY-2482_chromosome	-	4252672	4253376	344.114026	339.5371801	290.1826888	399.5751318	413.9995992	550.6900184	-0.461261882	1.643868203	1.3628637
B7LHA6	TY-2482_chromosome	-	4253376	4253777	488.4039308	456.4166731	463.4192422	502.0449054	542.3519366	653.4629067	-0.216581933	0.726013101	0.5719531
B7LHA7	TY-2482_chromosome	-	4253898	4254710	2423.867191	2141.439135	2265.882763	2623.033727	2762.068644	2230.318854	-0.155604977	0.185390292	0.1368113
B7LHA8	TY-2482_chromosome	-	4254753	4255403	649.9886942	600.5280476	582.8259026	713.2162335	708.9285907	688.1513314	-0.204920129	0.515368096	0.3964364
B7LHA9	TY-2482_chromosome	-	4255399	4256427	211.7379136	196.1348718	191.9906497	507.5660175	514.167058	530.1526917	-1.359353091	10.67157054	9.7103255
B7LHB0	TY-2482_chromosome	+	4256615	4257184	998.1643877	1120.232051	1150.927115	672.3340142	763.5935549	671.1086728	0.627656868	2.979190833	2.5412594
E9WNY3	TY-2482_chromosome	-	4257464	4257697	105062.7516	478548.276	203794.0317	38553.81465	59832.13024	111882.0856	1.661432358	3.302916357	2.8288295
rrsD	TY-2482_chromosome	+	4257551	4259092	844159.4624	3749859.915	1828189.888	199945.3881	234419.8798	756515.2612	2.296895489	4.416842423	3.8456329
Q57H85	TY-2482_chromosome	+	4258672	4258989	211076.398	950541.1191	432149.5649	13892.05002	17679.18788	86908.43024	3.675784783	7.583750354	6.7936364
ileT	TY-2482_chromosome	+	4259161	4259237	573.0648007	650.8113675	327.7985737	161.3688633	423.8224297	114.3142321	0.989202228	3.172349799	2.7116613
alaT	TY-2482_chromosome	+	4259280	4259355	342.3610581	302.3264092	156.0521254	125.9310832	328.2523964	87.98328294	0.454875168	0.996512538	0.7992653
rrfE	TY-2482_chromosome	+	4259539	4262442	462611.8435	4780436.047	1278609.695	1068425.799	878818.1781	4716870.431	-0.424253205	0.016670604	0.0107305
Q1R3T8	TY-2482_chromosome	-	4259765	4260067	86845.23028	716214.5376	231259.5255	298460.8456	247360.7185	1198482.399	-1.075287986	0.633937612	0.4946838
C1HUN3	TY-2482_chromosome	-	4261125	4261328	27950.62736	342358.2535	90477.44555	80585.36554	67082.21119	387523.8843	-0.614131057	0.126125982	0.0927098
C1HUN1	TY-2482_chromosome	-	4261405	4261857	88984.01539	1006093.783	244285.6623	70734.30591	42340.58308	478103.1067	0.826585222	0.962196025	0.7707543
C1HUN0	TY-2482_chromosome	-	4261861	4262217	74812.47543	764560.6488	206460.9116	48061.48621	30799.311	335674.6335	1.031978102	1.180454236	0.9588592
rrfC	TY-2482_chromosome	+	4262536	4262655	3642.667786	14063.33604	172.6251108	17214.32398	157877.1875	7371.769125	-4.213280418	3.22465413	2.8455344
B7LHB1	TY-2482_chromosome	+	4262760	4263032	218.1498164	395.8760834	120.2161315	504.8454918	1058.780984	572.8251217	-1.84126959	5.659750404	4.9898546
aspT	TY-2482_chromosome	+	4262847	4262923	92.51617718	183.7301846	42.91750031	239.6494026	481.8122114	238.7816163	-1.953475791	5.105931025	4.4753479
B7LHB2	TY-2482_chromosome	+	4263085	4263885	168.8779099	182.7617547	185.5992324	405.5819337	338.4955604	322.5922355	-1.032168813	5.860216967	5.175383
B7LHB4	TY-2482_chromosome	-	4263888	4264799	248.0605663	288.028162	289.9675089	174.6994522	181.1298385	160.6964048	0.650545323	3.067621254	2.6201967
B7LHB5	TY-2482_chromosome	+	4265040	4265837	975.0796206	979.3899251	1084.946501	775.4116162	799.9105424	879.9671901	0.34754073	0.972380204	0.7793089
B7LHB6	TY-2482_chromosome	+	4265918	4266685	134.6516255	126.6944345	130.0272951	94.66988563	91.00417209	84.36961901	0.529275974	2.162870279	1.8154903
B7LHB7	TY-2482_chromosome	-	4266739	4268094	1813.16151	1353.93766	1411.334599	2223.631308	2510.013047	1967.19002	-0.524827382	1.436506676	1.1806247
B7LHB8	TY-2482_chromosome	-	4268169	4268921	325.0869497	398.0090562	359.130885	495.569152	519.7878716	282.420735	-0.378780565	0.578458525	0.4486716
B7LHB9	TY-2482_chromosome	+	4268955	4269674	587.6826142	633.4067044	627.2479677	420.1763183	451.4063066	434.1858112	0.496718821	1.944886974	1.6233998
C4X416	TY-2482_chromosome	-	4269677	4270252	513.6840763	543.2650009	529.4845296	343.3428748	417.8417154	304.2994679	0.548579293	2.236799738	1.88216

D3GS43	TY-2482_chromosome	+	4270197	4270934	608.7741359	569.916622	602.1465509	507.7531618	553.411981	395.1882789	0.273615457	0.787095878	0.6246799
A1A7Q7	TY-2482_chromosome	-	4270842	4271153	249.9808642	248.7073913	180.3390122	106.7395458	191.5495774	58.97369176	0.818913442	2.903092289	2.4741956
aspT	TY-2482_chromosome	+	4271070	4271146	145.8494443	114.937626	54.99828057	26.59369105	106.2927356	16.89120509	0.991102834	1.949709258	1.6276232
B7LHC3	TY-2482_chromosome	-	4272887	4273813	38.08989624	32.40660943	44.52278493	50.3578284	38.2993909	7.609572608	0.153046741	0.308778571	0.2313826
B7LHC4	TY-2482_chromosome	-	4273845	4274324	26.70722107	31.04638766	35.23716666	52.01647014	50.22818733	8.975754613	-0.398166846	0.092122845	0.1282677
B7LHC5	TY-2482_chromosome	-	4274351	4275790	122.5512103	133.518034	126.7234369	52.57412568	51.87386943	48.79614035	1.289951222	9.820052649	8.8986943
B7LHC6	TY-2482_chromosome	-	4275714	4279235	180.8062823	210.4003663	196.0710079	164.6147225	155.5251132	212.6449104	0.150282654	0.300983281	0.2251765
B7LHC7	TY-2482_chromosome	-	4279257	4280735	66.49449855	69.48511945	68.65512493	90.19330228	64.47219585	91.8496064	-0.275582258	0.645155351	0.5041939
B7LHC8	TY-2482_chromosome	-	4280677	4281417	32.75913531	44.42818946	32.11844273	58.53431012	42.6294253	66.70980539	-0.689550761	1.719308413	1.4295497
B7LHC9	TY-2482_chromosome	-	4281417	4284287	167.5527331	157.6434972	163.0528197	228.7054406	152.6844726	261.2559609	-0.36464867	1.114034788	0.901071
B7LHD0	TY-2482_chromosome	-	4284185	4284943	45.70821778	41.59620232	40.80916712	47.17166719	34.41151064	66.38217501	-0.150004911	0.330418482	0.2484497
B7LHD1	TY-2482_chromosome	-	4284951	4286279	95.09145111	87.81747552	83.00353473	91.90701889	83.65731975	101.1029701	-0.044798344	0.091957434	0.0676932
B7LHD2	TY-2482_chromosome	-	4286285	4286806	30.7160679	38.73375261	20.56714509	38.05046758	18.9471999	28.96188235	-0.106121383	0.039356853	0.0268069
B7LHD3	TY-2482_chromosome	-	4286806	4288104	63.51166964	77.88751656	55.08592427	75.82422588	45.30651894	79.85108032	-0.114468009	0.054554331	0.0385627
B7LHD4	TY-2482_chromosome	-	4288111	4289196	48.5728251	57.70523557	42.60037781	44.15487153	33.57035923	44.57842542	0.210221618	0.532172172	0.4105197
B7LHD5	TY-2482_chromosome	-	4289157	4291004	136.4310402	101.9549588	108.7455395	68.04102817	80.11968016	77.57693891	0.68208082	2.653129206	2.3537774
B7LHD6	TY-2482_chromosome	-	4291011	4291421	28.73104122	53.67872276	40.26391349	25.5924407	29.18370671	21.32606336	0.548176076	1.612031498	1.2357828
B7LHD7	TY-2482_chromosome	-	4291431	4292903	88.20873463	108.4399953	72.81720729	85.33506835	80.03421679	91.95335993	-0.020723498	0.089243647	0.0653818
B7LHD9	TY-2482_chromosome	-	4293216	4293713	45.91615096	36.57017269	31.99285973	23.9897519	30.98196083	30.17362469	0.460257558	0.88725791	0.7089247
B7LHE1	TY-2482_chromosome	+	4294410	4294925	55.95259087	57.25143816	66.24427486	34.83322777	60.2003647	51.22500715	0.370364538	0.624375012	0.4873432
B7LHE2	TY-2482_chromosome	+	4295138	4297276	44.68467573	22.89486791	27.40524397	40.87115895	24.38784421	48.17082337	-0.14706166	0.341002211	0.2568444
B3IHE6	TY-2482_chromosome	+	4297355	4300568	154.8595227	156.6526764	136.4166604	76.09901825	70.9208152	86.60077037	0.930462748	5.434989871	4.7803954
B7LHE8	TY-2482_chromosome	+	4302969	4304027	50.72258633	67.3068987	47.21768905	36.45540552	24.46289169	31.56559694	0.716144804	2.74041509	2.3317334
B7LHF0	TY-2482_chromosome	-	4304075	4304842	643.8898415	638.9060705	629.8007814	375.9921184	476.9691036	400.083645	0.61991518	2.59900611	2.2054214
B7LHF1	TY-2482_chromosome	+	4304996	4305466	530.7456095	635.2354809	593.5597501	698.0514199	772.7039047	637.030889	-0.306674625	0.702263117	0.5513125
B7LHF2	TY-2482_chromosome	-	4305515	4307956	235.4736062	249.7142583	248.2646011	209.2258746	167.3838706	169.909269	0.382139932	1.413029741	1.161075
A1A7T5	TY-2482_chromosome	+	4308034	4308771	2057.189157	2148.378734	2247.544261	2104.050481	2178.664446	2182.596492	0.007432672	0.002892492	0.0010807
B7LHF4	TY-2482_chromosome	+	4308980	4309744	781.5019255	719.6534849	808.9060788	929.5566765	767.0999344	823.654339	-0.116408901	0.802222547	0.2092607
B7LHF5	TY-2482_chromosome	-	4309721	4310458	457.6267262	468.7996474	466.1098404	765.6781469	853.7001584	705.4339681	-0.753759519	3.558066113	3.0579868
B7LHF6	TY-2482_chromosome	-	4310617	4310892	395.6859844	393.689187	345.030653	164.7027228	216.7811782	132.1317472	1.094081336	6.831263104	6.0867893
B7LHF7	TY-2482_chromosome	-	4310898	4311155	489.8000017	532.2659755	457.9733358	175.4610822	225.0367064	98.30655983	1.465274603	9.616013204	8.709484
B7LHF9	TY-2482_chromosome	-	4312174	4312527	220.6241159	233.5871224	198.4679343	92.87955712	155.9351992	73.08606936	0.961837461	4.652017962	4.0575045
B7LHG0	TY-2482_chromosome	-	4312523	4312819	95.51090878	105.8082983	117.7743023	44.91508177	62.8889752	53.96180218	1.015656484	5.121014498	4.4894261
B7LHG1	TY-2482_chromosome	-	4312906	4314642	47.53058826	74.59893472	55.99457365	34.27518872	31.84417415	29.11653194	0.775946355	3.138265775	2.605903
B7LHG3	TY-2482_chromosome	+	4315443	4316495	338.8878813	297.1863906	317.5390504	169.7741648	221.2564768	179.0930709	0.778865644	3.887512062	3.0844126
C8UI55	TY-2482_chromosome	+	4316495	4316944	62.7643879	55.51826027	72.25024802	33.48130493	35.52080829	30.43090175	0.981400194	3.992883945	3.4524641
B7L3Y7	TY-2482_chromosome	+	4317166	4318329	40.17430943	46.35746477	50.38437689	13.96095474	7.151618945	15.50542831	1.907047213	9.053343643	8.1743153
A1A7U7	TY-2482_chromosome	+	4318245	4318940	91.21899079	104.1444504	79.54887322	63.6100416	61.84285697	70.88690361	0.436241342	1.527938521	1.2593514
B7L3Y9	TY-2482_chromosome	-	4319003	4320457	6447.784444	6658.56571	6800.46456	13121.55018	11268.18495	12564.09297	-0.900829291	1.642020886	1.3612548
B7L3Z0	TY-2482_chromosome	+	4320718	4321173	465.9751441	398.1974765	474.1987306	653.4431682	934.7034619	933.8076909	-0.808518531	4.673829861	4.0763135
B7L3Z1	TY-2482_chromosome	+	4321268	4322509	1436.582146	1327.664165	1535.228333	1508.528818	1389.594467	1540.498417	-0.007499509	0.08401948	0.0616629
B7L3Z2	TY-2482_chromosome	+	4322570	4322968	1058.073903	1153.540448	1113.141103	798.2740768	1052.164973	796.2321936	0.315249219	1.002928492	0.8047811
B7L3Z3	TY-2482_chromosome	-	4323013	4324065	44.04113616	37.72614396	53.84940479	19.9019051	28.24903186	31.28442215	0.900254841	2.062915378	2.0005104
B7L3Z4	TY-2482_chromosome	+	4324353	4325453	913.1122731	850.9299175	946.8880922	1593.567141	1249.403747	1405.124257	-0.643539136	2.748707906	2.3388052
B7L3Z5	TY-2482_chromosome	+	4325468	4326718	1396.146586	1480.717984	1406.228229	2030.543861	1962.941975	2146.974984	-0.528049022	2.006688982	1.6771479
thrW	TY-2482_chromosome	+	4326836	4326911	184.2386813	286.1351092	251.6601372	132.8061842	141.1438636	99.16738493	0.837838511	4.665694404	4.0693066
D6J782	TY-2482_chromosome	-	4326973	4327284	37.97550221	43.56942249	44.33721596	42.97451808	42.8438935	25.56463264	0.104915521	0.266222604	0.1987204
B3HAL5	TY-2482_chromosome	-	4328239	4328793	70.97768174	63.28107948	82.84159631	30.42000712	31.00592918	18.90141846	1.43540077	7.820876222	7.0152288
B3HAK2	TY-2482_chromosome	+	4334371	4335399	77.45769577	57.51091235	50.38469138	27.87580393	22.72485469	19.99415964	1.359640352	6.59761086	5.8656356
C8THX6	TY-2482_chromosome	+	4335786	4337624	112.6462547	152.6234079	127.3406506	63.41158029	51.97572293	12.93476774	1.38760185	6.704131209	5.966472
E9TCE4	TY-2482_chromosome	+	4337675	4338349	129.3298031	124.3621291	138.7789676	79.25665061	93.08167068	24.82368519	0.905658187	3.312770171	2.8369791
C8THX8	TY-2482_chromosome	-	4338436	4339710	61.31371144	64.02689981	57.96027618	17.67298936	24.72063976	11.02491961	1.710733542	9.897647459	8.9723011
B7L3Z6	TY-2482_chromosome	+	4340038	4341249	150.602836	100.5535386	137.4420193	235.0527206	191.0976038	150.531986	-0.545411257	1.943021941	1.6221328
B7L3Z7	TY-2482_chromosome	+	4341375	4342175	228.6715768	242.4576581	267.6111077	185.1533958	172.0948593	92.97953454	0.637505887	2.615969777	2.188378
B7L3Z9	TY-2482_chromosome	+	4342649	4343446	83.28006581	60.90691526	69.88971009	35.24796278	42.82347429	38.20459706	0.944881884	3.769756481	3.2458615
B7L400	TY-2482_chromosome	+	4343442	4345025	960.9840429	993.7294563	887.1447468	415.0045938	732.8537593	496.2605842	0.793822719	3.444626314	2.9555424
B7L405	TY-2482_chromosome	+	4345871	4348000	73.62842421	104.4771763	104.5857455	32.47480293	36.36140986	48.23475829	1.290490155	6.600601	5.8681121

B7L406	TY-2482_chromosome	+	4348462	4349016	50.16006042	38.0142771	53.72303339	38.39412898	29.976576	30.42463534	0.56762941	1.389095691	1.1393451
B7L408	TY-2482_chromosome	+	4349438	4350577	3630.559861	3987.379281	4245.502029	2709.796687	2345.41601	471.2901111	0.924222603	1.773744391	1.4751814
B7L409	TY-2482_chromosome	+	4350645	4350965	107.3791641	140.5204457	133.4822397	54.72843991	49.2850136	10.28629706	1.547613337	7.505800125	6.7238258
B7L410	TY-2482_chromosome	+	4351411	4351680	375.9878448	399.5870721	441.9258235	319.9298783	373.2834781	223.0302641	0.377601509	1.194425605	0.9694892
B7L411	TY-2482_chromosome	+	4351765	4352307	98.69554514	93.4411319	103.0853532	112.0727233	90.05095015	83.19659508	0.026510524	0.084815707	0.0622325
B7L412	TY-2482_chromosome	+	4352914	4353906	3297.041708	3529.111493	3849.385616	4024.482693	3110.766	221.3702535	0.319413124	0.474415277	0.3628443
B7L413	TY-2482_chromosome	+	4353902	4354879	2280.132852	2223.440086	2358.422432	3150.023594	2788.685076	210.8521769	-0.037531549	0.119123452	0.087349
P71299	TY-2482_chromosome	+	4355264	4355764	47.08902883	53.07621964	42.67861811	37.54597262	42.88441251	24.22732725	0.34950184	0.967889796	0.7754118
B7L415	TY-2482_chromosome	-	4355734	4356687	53.85009826	54.05018153	51.40145603	78.25945244	61.7727395	82.65454724	-0.485621794	1.448660524	1.1908877
B7L416	TY-2482_chromosome	-	4356700	4358895	82.25662524	89.27540414	74.36250027	160.859902	127.2554136	196.8094578	-0.989768667	5.083810494	4.4550646
B7L417	TY-2482_chromosome	-	4358895	4359848	33.93680211	24.27843289	24.85551313	65.96935014	38.02009263	70.60751045	-1.027474609	3.807193184	3.281067
B7L418	TY-2482_chromosome	-	4359848	4360534	22.97837387	32.10061195	26.36001646	47.30444719	33.51483659	58.68534235	-0.810943312	2.185041273	1.8361765
B7L419	TY-2482_chromosome	+	4360952	4361563	221.1296676	262.0752693	257.5880734	211.7532293	219.4275244	138.8086113	0.199964159	1.059827468	0.8542587
B7L420	TY-2482_chromosome	-	4362459	4363166	98.15088034	83.2095023	83.68511284	68.54807906	56.36509059	59.30465673	0.52000179	1.856120219	1.5468287
B7L421	TY-2482_chromosome	-	4363138	4364778	158.6182115	144.8793958	149.8194869	137.5508329	104.548559	126.2589643	0.298595381	0.892038415	0.7128837
B7L422	TY-2482_chromosome	-	4364771	4367293	117.436804	115.9235016	110.8045265	91.49100481	71.79564315	88.05771333	0.437945129	1.665275819	1.3806785
B7L423	TY-2482_chromosome	-	4367322	4367987	156.368911	154.3051858	138.4247253	85.3560096	71.78775926	98.3360354	0.815295006	4.14369128	3.9155556
B7L424	TY-2482_chromosome	-	4368048	4368632	336.5233116	344.8679	320.735275	252.073754	290.3883623	235.7528522	0.340392611	1.123747237	0.9093827
B7L426	TY-2482_chromosome	+	4370072	4370296	58.01573995	100.9057644	55.61587311	30.48422899	31.02166358	16.36638882	1.208314034	5.873411516	5.1876555
B7L427	TY-2482_chromosome	-	4370477	4370737	51.71274493	44.55925891	46.7986714	60.90926171	89.42814598	42.79480109	-0.44396361	0.981119422	0.7867102
D3GT81	TY-2482_chromosome	-	4370794	4371023	10.39489485	14.27765262	9.731817973	30.07168197	37.39587142	27.86539233	-1.557241813	5.035747678	4.4098258
D6JDQ4	TY-2482_chromosome	+	4372312	4374381	80.85915206	74.99553976	72.48109905	59.47357346	42.6733632	50.05168963	0.558201018	1.941313308	1.6206233
B7L429	TY-2482_chromosome	-	4376695	4377582	123.1050562	158.5312983	148.6314101	135.8498506	123.8365092	73.13636156	0.248756965	0.957279824	0.7665769
B7L432	TY-2482_chromosome	-	4379092	4380414	85.05255669	93.01399718	104.5709431	142.8722557	92.64839207	139.2024307	-0.40253335	1.189433591	0.9654545
B7L433	TY-2482_chromosome	+	4380640	4381491	24.49738205	32.37635176	27.69546576	28.49998115	28.27320418	16.30206755	0.094615133	0.276613151	0.2069938
B7L434	TY-2482_chromosome	+	4382021	4382737	692.2348714	805.9539856	848.6242415	1914.349511	1212.922911	1574.804744	-1.047162833	5.263149083	4.6191632
B7L435	TY-2482_chromosome	+	4382751	4384175	919.4932071	1237.22051	1111.207865	3613.471115	2027.377145	2866.721497	-1.483820337	5.880979913	5.1942999
B7L436	TY-2482_chromosome	+	4384171	4384863	360.3032689	366.5161367	427.4634903	1393.933553	956.2894319	1353.528293	-1.663201967	14.60729254	13.484505
C8TI04	TY-2482_chromosome	-	4384824	4385033	73.29759221	78.98719631	65.10418023	194.3500006	170.994555	220.7147199	-1.453135645	11.05418175	10.076981
B7L437	TY-2482_chromosome	-	4384943	4385137	26.19537766	29.79322985	21.48741442	69.14020465	65.5353178	55.54455572	-1.388414698	6.364565408	5.6482194
B7L439	TY-2482_chromosome	-	4385993	4387660	1048.22852	1210.287621	1249.339244	2191.623892	1668.878192	2384.82888	-0.830025752	3.998491125	3.4577409
B7L441	TY-2482_chromosome	-	4387677	4389146	919.7316296	889.7526587	1067.907236	2176.887313	1878.206685	2776.668868	-1.168723522	8.059884785	7.2349599
B7L442	TY-2482_chromosome	-	4389163	4389747	387.4013644	361.3736017	390.2484086	732.537995	804.4541763	954.7491898	-1.064144495	7.154094902	6.3890653
Q0TKV8	TY-2482_chromosome	+	4389664	4389876	101.6688384	107.7534908	98.91669516	161.8813414	195.7074272	189.3762165	-0.823433899	4.404654174	3.8345069
B7L443	TY-2482_chromosome	+	4389876	4391196	322.4322228	299.0971926	287.6919908	1357.382493	1493.382493	1656.10195	-2.275396827	29.06388545	27.583517
B7L444	TY-2482_chromosome	+	4392416	4396462	331.0848268	380.7504603	380.397309	228.6242078	204.7044449	226.2383058	0.70902041	3.439881519	2.951677
B7L445	TY-2482_chromosome	+	4396607	4397692	178.6909893	156.2769963	205.0206574	213.7725295	184.7156744	168.6924166	-0.045515431	0.125621587	0.0925136
B7L446	TY-2482_chromosome	-	4397740	4398669	232.8340453	191.5692822	191.2513587	63.24199374	84.69133969	84.02519908	1.470852354	10.88160083	9.9142203
B7L448	TY-2482_chromosome	+	4399516	4400118	59.00464664	55.14742616	67.5776651	29.11290551	17.13671786	31.25266356	1.274506273	5.655679788	4.9862287
B7L450	TY-2482_chromosome	+	4401014	4402558	15.24236293	37.21174871	23.00764351	53.91884324	27.12526483	39.53500642	-0.905622599	1.449586634	1.1914692
B7L451	TY-2482_chromosome	+	4402561	4403976	25.25806152	30.48131332	29.78116193	44.40847744	32.69422871	33.10222625	-0.429486889	0.726780184	0.5724466
B7L453	TY-2482_chromosome	+	4405082	4406461	25.68104596	16.84446379	19.66471943	37.40782409	24.50276909	21.44769109	-0.43703625	0.709144676	0.5573851
B7L4X8	TY-2482_chromosome	+	4408444	4409940	44.1091907	50.32498314	38.67253	35.44571966	33.64027584	36.78665383	0.274889888	0.659613957	0.5158773
B7L4X9	TY-2482_chromosome	+	4409936	4410904	98.79424755	92.9669148	89.65240679	35.22122014	37.27758444	45.75680697	1.28560947	7.513289403	6.7301616
B7L4Y0	TY-2482_chromosome	+	4410874	4411857	145.1122155	156.0229612	124.4437942	63.28943465	89.29920551	73.74827116	0.883920271	4.72435537	4.1219146
B7L4Y1	TY-2482_chromosome	+	4411947	4412993	531.0657207	504.937124	472.5284577	802.4841315	713.3877826	896.9590317	-0.666958614	3.070347143	2.622122
B7L4Y3	TY-2482_chromosome	+	4414466	4414708	64.30831124	71.09284837	57.17182705	62.79542815	6.295784286	6.781709785	2.795408581	19.89541803	1.610821
B7L4Y4	TY-2482_chromosome	-	4414731	4415399	51.11339718	35.2571531	42.84859719	40.68924141	38.18107935	43.31939623	0.153241684	0.127711232	0.0934769
B7L4Y5	TY-2482_chromosome	+	4415546	4415818	383.1932373	584.6124682	487.9072054	330.8997696	582.1040448	98.85921306	0.343923961	0.852961736	0.6789115
B7L4Y6	TY-2482_chromosome	-	4415925	4417508	38.59037873	50.85794073	51.70616482	72.7613267	51.78940595	52.87546282	-0.402375515	0.760075891	0.6020708
B7L4Z0	TY-2482_chromosome	+	4421375	4423258	59.00705083	64.01492406	60.02275744	52.75865342	39.94505943	49.92211687	0.328737176	0.901101954	0.7198897
B7L4Z2	TY-2482_chromosome	+	4423687	4424943	447.913122	523.4971461	388.454745	157.343002	167.4195427	194.4216503	1.344401965	9.976441099	9.0454492
B7L4Z3	TY-2482_chromosome	+	4424936	4426216	1070.923529	1061.249446	1023.918259	603.4869507	551.4152046	665.4643836	0.802864081	4.368160882	3.8001304
B7L4Z4	TY-2482_chromosome	-	4426262	4427158	111.9255041	66.99532065	83.01479827	58.79374495	38.0758356	55.10524024	0.854958834	2.917718979	2.486517
B7L4Z5	TY-2482_chromosome	+	4427268	4427924	20.86818987	20.98684828	23.19478147	29.6246952	28.2048255	26.43909153	-0.372364781	0.69999866	0.5497211
B7L4Z6	TY-2482_chromosome	+	4427958	4428425	27.08472498	21.42504598	22.31081501	36.98832819	32.74849636	29.17469462	-0.484477451	1.051493617	0.8468404
B7L4Z7	TY-2482_chromosome	+	4428461	4429612	45.58100024	42.11486453	49.66471236	44.59744428	54.71844259	35.93185941	0.033468763	0.015110925	0.0098455

B7L500	TY-2482_chromosome	-	4431703	4434774	143.447048	183.1333158	133.6749607	238.151834	140.8357837	239.0522924	-0.519921069	1.19763302	0.972377
B7L501	TY-2482_chromosome	-	4434900	4435979	185.4408727	168.6580977	201.5812159	716.9623083	367.4429241	475.1902594	-1.523647846	9.064631763	8.1834374
B7L502	TY-2482_chromosome	-	4436059	4437003	48.56059914	42.59331838	55.72386096	67.62734474	64.58131382	69.67712277	-0.397990491	1.287836192	1.0506977
B7L505	TY-2482_chromosome	+	4439693	4440571	44.09690827	41.8347355	46.29080675	56.20685194	27.06822569	60.01348755	-0.089141786	0.136987271	0.1006098
B7L506	TY-2482_chromosome	+	4440584	4441390	46.75364411	27.86619248	34.83637271	44.1785879	28.03509795	54.65922833	-0.080866105	0.270472558	0.2023029
B7L507	TY-2482_chromosome	+	4441390	4442337	36.12796756	62.69007581	61.08340128	52.52513333	41.74114484	62.7537506	-0.006174827	0.012589169	0.0081495
B7L508	TY-2482_chromosome	+	4442337	4443347	52.37199567	42.80792974	56.33042704	80.98942083	47.1015627	94.12503893	-0.46822262	1.393284451	1.1428783
B7L509	TY-2482_chromosome	+	4443526	4444734	79.83611231	87.70446955	95.26841629	42.96830817	40.83251706	70.2664175	0.849223049	2.903789725	2.4746375
B7L510	TY-2482_chromosome	+	4444839	4445375	319.8151496	408.0018452	359.1193824	113.7672068	89.98611452	115.5960838	1.712539381	15.62689244	14.463091
B7L512	TY-2482_chromosome	-	4445608	4446438	244.0160541	189.766864	220.5131473	209.0167291	173.7361285	201.2306648	0.208627215	0.383141503	0.2907045
B7L513	TY-2482_chromosome	-	4446534	4447640	660.3626643	656.7808676	626.4396684	946.926629	869.9297674	1066.68753	-0.558918714	2.424889742	2.0502004
Q1RF15	TY-2482_chromosome	+	4447720	4448019	162.8328594	192.373566	181.5824157	217.2670473	204.6928656	249.6930515	-0.331437003	0.943275824	0.755076
B7L515	TY-2482_chromosome	-	4448139	4448909	30.60496671	31.1225067	32.38680017	18.87884244	26.51184632	16.11232191	0.603065624	1.430355144	1.1760142
B7NJD4	TY-2482_chromosome	+	4454592	4455374	64.9002177	78.77086503	69.25252572	51.44129309	42.71985216	44.82486464	0.549003968	1.996589889	1.6686715
B7L523	TY-2482_chromosome	-	4455486	4456457	1719.360669	1520.87007	1692.239224	2747.006152	2486.169149	3146.623389	-0.709785332	1.659892094	1.3769409
B7L524	TY-2482_chromosome	+	4456981	4459866	286.5636444	255.6292488	255.3714089	115.1385228	124.7962455	75.64062104	1.296863632	0.063902098	8.1834309
B7L526	TY-2482_chromosome	-	4460584	4461738	227.4792952	189.4283664	215.9276782	455.0244065	402.1362015	536.3761188	-1.070108023	7.089297245	6.3301124
B7L527	TY-2482_chromosome	+	4461876	4462067	70.75088982	98.60368427	83.15161857	30.6138833	41.04771005	31.74035966	1.224291609	6.578112516	5.8481858
B7L528	TY-2482_chromosome	+	4462090	4463307	177.9208506	175.7015587	191.5867036	238.028411	255.6763266	319.2458453	-0.511724784	2.236986418	1.88216
B7L529	TY-2482_chromosome	+	4463323	4464414	334.8905402	368.0153801	363.8287946	311.2191393	277.4609352	358.826084	0.180107005	0.39153553	0.2966714
B7L530	TY-2482_chromosome	-	4464479	4464784	34.36273663	44.19253156	27.98033881	54.46606899	97.55360319	77.61105958	-1.160775015	4.453212578	3.8780856
B7L531	TY-2482_chromosome	+	4464912	4465253	242.0752285	302.4731654	264.0147669	190.1380784	276.8800179	168.9207657	0.283450542	0.91118279	0.7278623
B7L532	TY-2482_chromosome	-	4465283	4466374	1819.462273	1798.263094	1862.551868	2117.219817	2259.69343	2051.185968	-0.226058083	0.429940657	0.3279819
P71314	TY-2482_chromosome	-	4466689	4466937	298.9309117	349.5964537	336.7665341	41.26588848	51.06608515	35.8503154	2.900379133	37.2932968	36.629586
B7L534	TY-2482_chromosome	+	4466837	4467094	574.9528353	658.4197025	590.8021755	78.68388243	93.8254341	72.63120014	2.848528973	37.33632066	35.663747
C8U269	TY-2482_chromosome	+	4467198	4468610	610.9729787	628.1955901	586.155772	152.7864141	194.8751388	147.6329247	1.863056284	17.79959987	16.571618
B7L539	TY-2482_chromosome	+	4468732	4469049	171.9480944	182.4907553	170.9108513	109.2245091	175.8871193	105.7144034	0.409436606	1.268752414	1.0339618
B7L540	TY-2482_chromosome	+	4469154	4470266	61.61765543	38.50268289	53.51485395	82.24848336	67.26002332	80.174485	-0.49246554	1.75360572	1.4589986
B7L541	TY-2482_chromosome	-	4470289	4471095	668.5512644	697.5700541	636.3047822	1135.29551	1030.064709	1430.873093	-0.829518768	4.597154181	4.0082159
D8CGU2	TY-2482_chromosome	+	4471095	4471670	238.9365987	357.6332211	274.4873722	319.1491551	334.9311426	300.1325957	-0.242915131	0.278552348	0.2081504
B7L543	TY-2482_chromosome	+	4471856	4472377	624.4853255	623.134678	574.8830484	422.4032681	409.5322537	369.9141414	0.56524492	2.541268865	2.1526021
Q1RFF5	TY-2482_chromosome	-	4472373	4472699	569.7092031	665.9083422	580.2015378	335.9427692	492.5861997	286.0925297	0.642786794	2.772382606	2.3587963
B7L545	TY-2482_chromosome	+	4472879	4473553	236.3579519	209.8255367	241.099006	414.5555025	424.145205	328.0156455	-0.758905888	3.577293623	3.0757069
B7L546	TY-2482_chromosome	+	4473628	4473909	694.5869065	795.0814153	735.4502806	569.490295	925.7783891	596.3781482	0.07032579	0.161527446	0.1184472
B7L548	TY-2482_chromosome	-	4474616	4475524	433.0125885	397.6658201	446.4285277	941.0504399	926.4106907	964.313479	-1.114313781	7.943495946	7.1280057
B7L549	TY-2482_chromosome	+	4475649	4476554	426.0079081	496.8367716	521.1388712	346.8730873	260.1158993	382.4424824	0.551696405	1.932755589	1.6124637
B7L550	TY-2482_chromosome	-	4476703	4477884	213.8936097	223.4658408	195.202921	181.6725508	209.3504057	199.9612234	0.083416497	0.192051443	0.1416595
B7L551	TY-2482_chromosome	-	4478013	4481153	656.7369756	555.1588266	625.2728495	908.2297787	726.0660227	1084.859681	-0.497505237	2.192768143	1.8436495
B7L552	TY-2482_chromosome	-	4481153	4482352	195.0191598	240.4453025	197.2132699	278.4571967	262.964848	284.1149189	-0.444524699	1.256129016	1.0226435
B7L553	TY-2482_chromosome	+	4482542	4483228	108.4800962	103.3422972	102.918849	130.7226679	131.0580394	121.1851139	-0.289335423	0.835277814	0.6642008
B7L688	TY-2482_chromosome	+	4483289	4484581	120.3963377	111.6375859	125.5510144	150.0274988	142.0015799	109.6487539	-0.183399828	0.382742112	0.2904291
B7L634	TY-2482_chromosome	+	4484991	4486307	1029.86054	900.1901463	1013.527599	544.7743768	594.2444756	671.9965038	0.771292684	3.489290367	2.9957824
B7L635	TY-2482_chromosome	+	4486386	4487756	402.6390919	295.7189685	349.8939259	568.04042	530.5029993	605.0323737	-0.629005461	3.145498307	2.8667296
B7L636	TY-2482_chromosome	+	4487915	4489729	609.2270983	735.8739409	719.1008515	746.4081041	668.74311	1046.481269	-0.223084551	0.625925201	0.4882406
B7L637	TY-2482_chromosome	-	4489740	4490318	195.9211864	171.5816049	216.1695751	345.2803889	340.3079957	399.6928089	-0.816315592	4.943485911	4.325533
B7L638	TY-2482_chromosome	+	4490411	4491478	404.6563258	398.9861169	358.2695449	911.6224626	767.0712091	953.609307	-1.192589698	7.869825292	7.0586688
B7L639	TY-2482_chromosome	+	4491537	4492661	3279.171851	3356.614796	3580.578431	4084.015618	4442.894871	4302.070414	-0.3094455	4.36519033	0.3331138
B7L640	TY-2482_chromosome	+	4492687	4493016	4552.78302	4592.937761	4762.987103	4169.305531	5265.687243	4069.482304	0.048107584	0.041545536	0.0285056
B7L641	TY-2482_chromosome	+	4493047	4494891	6235.53433	5899.051123	5963.839229	10136.57151	9548.217411	10348.55946	-0.719660524	1.239267405	1.0082186
B7L642	TY-2482_chromosome	+	4494905	4495873	4502.102995	4044.805593	4191.104138	5214.313969	5460.322328	5290.129962	-0.304119147	0.221580788	0.3211836
B7L643	TY-2482_chromosome	+	4496005	4496349	416.3284284	476.1837811	486.7360141	85.62198061	128.501049	88.45224953	2.186137378	22.39172978	21.05253
B7L644	TY-2482_chromosome	-	4496532	4497413	2361.659739	2328.824798	2376.843428	8208.960317	8889.417705	8237.158485	-1.834882939	5.739656271	5.0639369
C8TJ02	TY-2482_chromosome	-	4497715	4498251	104.7966155	95.75945655	94.95220487	89.01406255	130.3448888	79.4166283	-0.016978955	0.016101627	0.0104508
B7L647	TY-2482_chromosome	+	4498402	4498848	869.8773393	768.4053091	790.8646205	625.0893982	582.3535772	724.5875613	0.372932926	0.994896003	0.7982478
B7L648	TY-2482_chromosome	+	4498855	4499955	1918.293883	1731.792413	1834.774279	1262.814101	993.602408	1585.986071	0.57291129	1.768803	1.4708074
A1A885	TY-2482_chromosome	+	4499951	4500514	2399.107402	2285.165299	2318.035775	1541.263773	1511.562216	1639.150437	0.595448185	1.594548105	1.3200933
A1A886	TY-2482_chromosome	-	4500510	4501040	2071.73307	1709.047234	1826.774231	1671.913384	1723.632018	1762.881117	0.162912073	0.256417649	0.1906903

B7L651	TY-2482_chromosome	+	4501034	4502008	543.0070334	485.24549	529.535348	640.2972506	591.4726992	677.3934376	-0.256807548	0.813257935	0.6472309
B7L652	TY-2482_chromosome	+	4501989	4502504	380.6618597	368.6872061	374.9861928	437.3921758	419.5057905	436.7765708	-0.196341768	0.499442315	0.3840406
B7L653	TY-2482_chromosome	-	4502564	4503535	595.2668168	562.339186	620.7284457	855.8213915	739.7918754	858.9874176	-0.441166841	1.680422923	1.3943572
B7L654	TY-2482_chromosome	-	4503593	4505452	1246.111296	1008.66821	1125.667656	3164.300608	2487.045229	3184.904149	-1.344606	6.410803606	5.6919745
B7L655	TY-2482_chromosome	-	4505480	4506376	881.341284	640.7340845	708.9266197	1063.532946	1253.019934	1687.557897	-0.914650516	5.186917294	4.55
B7L656	TY-2482_chromosome	-	4506379	4506618	359.8842306	317.4346338	311.4470301	424.7234094	435.8866858	483.9580433	-0.411700479	1.526260423	1.2580264
B7L657	TY-2482_chromosome	+	4506824	4508269	655.378099	551.9517569	526.5854113	1533.174663	1650.813776	1848.182705	-1.494827646	12.17957299	11.14554
B7L658	TY-2482_chromosome	-	4508329	4508916	602.644759	643.7944337	643.7643794	802.5564433	768.0595001	784.1356935	-0.328564781	0.956325617	0.7659178
B7L659	TY-2482_chromosome	-	4508882	4509790	702.8280508	749.6035787	781.1738272	748.7050646	643.3077011	804.911554	0.035070499	0.04216144	0.0287291
B7L660	TY-2482_chromosome	+	4509958	4510446	2888.803059	3070.162402	3028.5013	2509.239765	2895.874204	2332.868856	0.19748369	0.266434455	0.1988211
B7L661	TY-2482_chromosome	-	4510580	4511941	228.8667237	241.2650115	201.7380146	162.9249182	225.7510795	233.8744452	0.126455038	0.210377454	0.1556898
B7L663	TY-2482_chromosome	-	4513343	4513882	148.9269958	122.6164058	146.6732189	63.52614213	59.06777428	81.15385019	1.123840293	6.34664079	5.631284
B7L664	TY-2482_chromosome	-	4513869	4514243	145.0114587	144.6957208	155.9193175	67.87986937	49.93665464	65.6513574	1.285049006	9.204506036	8.3158391
B5Z3T4	TY-2482_chromosome	-	4514365	4515297	21607.12453	24788.93987	23763.85304	10192.74422	8691.86466	8242.593146	1.311326167	3.032613076	2.588905
B7L666	TY-2482_chromosome	-	4515267	4515593	9413.680918	10171.55994	9937.195622	4815.547379	3488.093997	4245.474522	1.195815237	2.813209315	2.3946625
B7L667	TY-2482_chromosome	-	4515596	4516207	14253.01975	13930.58009	15003.27464	7239.370619	5695.903555	6768.780327	1.134986305	2.346523401	1.9803192
B7L668	TY-2482_chromosome	-	4516200	4518188	33497.99275	31173.22541	33019.01893	20507.08781	16004.03067	21256.12436	0.80237208	1.166008633	0.9477294
B7L669	TY-2482_chromosome	-	4518213	4519157	12539.80231	11820.98092	12267.14933	7776.165379	7348.59277	8981.398811	0.640279868	0.902847276	0.721057
B7L670	TY-2482_chromosome	-	4519620	4521092	715.9419555	558.0716904	627.8243583	616.980983	687.0756812	773.2877803	-0.042422122	0.266526668	0.1988211
B7L671	TY-2482_chromosome	-	4521139	4521714	800.3623437	741.8363577	661.9046675	560.9811035	644.2708152	830.870895	0.166878925	0.228253964	0.1690096
B7L672	TY-2482_chromosome	+	4522019	4522333	2659.973213	2994.55532	2587.262295	986.4046238	1895.132173	913.7765366	1.075265568	3.682912948	3.1678301
Q1RFA2	TY-2482_chromosome	-	4522266	4522685	3612.078137	3919.085915	3127.158018	3480.038937	3781.348079	2914.489665	-0.011831246	0.068666936	0.0493055
B7L673	TY-2482_chromosome	+	4522680	4523975	19573.91789	19115.56099	19974.12076	31567.70099	26915.61415	29436.89628	-0.585838751	0.806702295	0.641372
B7L674	TY-2482_chromosome	+	4524224	4524844	4677.755157	4158.754819	4922.901999	6059.794927	5067.079178	5847.841792	-0.266497685	0.378716791	0.2873381
E0QWE8	TY-2482_chromosome	-	4524749	4524946	1726.809691	1551.743682	1739.147359	2057.882722	1566.083992	1847.114691	-0.112789255	0.261796272	0.1949508
B7L675	TY-2482_chromosome	+	4524973	4526244	7562.880336	7153.869821	7908.409864	12952.74955	10583.78833	13191.4803	-0.672917714	1.119894846	0.905842
B7L676	TY-2482_chromosome	+	4526435	4528786	6710.50639	5896.91507	6105.761004	16240.97811	13107.35384	16668.6243	-1.274977904	2.911780959	2.4810923
B7L677	TY-2482_chromosome	+	4528998	4529267	9303.598037	11710.74551	10482.51601	5817.98851	9948.981536	6022.050771	0.493270713	0.729401273	0.5743905
B7L678	TY-2482_chromosome	+	4529462	4531330	4175.219713	3872.247268	4167.443695	7420.551646	5849.689182	7385.685869	-0.739117998	1.340357172	1.0974856
B7L679	TY-2482_chromosome	+	4531484	4531852	51.42118482	63.39188212	56.75048037	77.46749198	70.92351569	84.03377455	-0.468251184	1.324740809	1.0833648
B7L680	TY-2482_chromosome	+	4531949	4532344	53.02422712	49.90485998	60.291768	59.39833215	40.82108242	56.43369569	0.08571324	0.086961889	0.0636024
B7L681	TY-2482_chromosome	-	4532402	4533094	291.3500499	357.4530637	367.9713034	445.7056272	524.2603852	457.9602157	-0.499934987	1.729051479	1.4381787
B7L682	TY-2482_chromosome	-	4533162	4534859	172.747742	175.0233456	166.2728974	338.9049541	307.5363187	348.5303356	-0.960054392	5.730073631	5.0552553
D3GV76	TY-2482_chromosome	+	4534947	4535774	561.7333705	515.6610753	513.5431385	310.8915932	420.571352	342.2000186	0.593336779	2.209380185	1.8588123
B7L684	TY-2482_chromosome	+	4535702	4536385	459.2843504	440.3634998	398.5311873	294.4623047	389.6045035	338.1586675	0.354275383	1.012417908	0.8132181
B7L685	TY-2482_chromosome	+	4536418	4538187	747.4032522	578.5298759	619.8023624	806.8741495	938.3162513	867.0280246	-0.371350483	1.475226431	1.2136471
B7L686	TY-2482_chromosome	+	4538183	4539961	436.008321	432.7300129	415.8379792	446.9177322	598.0570939	443.6649121	-0.216691976	0.515848994	0.3967077
B7L689	TY-2482_chromosome	+	4540513	4541796	90.36913102	95.44160607	100.4631301	94.95336709	124.8010407	94.96902445	-0.129663125	0.289014165	0.2158056
B7L690	TY-2482_chromosome	-	4541851	4542708	327.4233014	340.3341065	368.5741631	418.7372619	467.7811264	477.4601446	-0.363760836	1.277178569	1.0412911
B7L691	TY-2482_chromosome	+	4542926	4543495	1430.443476	1568.538784	1617.037905	1575.07427	2093.233891	1773.535753	-0.220953237	0.596388657	0.4636407
B7L692	TY-2482_chromosome	-	4543532	4543918	129.4083337	116.872612	130.7995397	107.9228673	113.8551577	72.95493742	0.335672834	1.020463358	0.8197556
B7MDX7	TY-2482_chromosome	+	4543822	4544157	3017.602087	816.3624307	186.3573087	1085.132817	10507.12619	298.9810374	-1.473757495	1.288629059	1.051026
ffs	TY-2482_chromosome	+	4543995	4544108	2990.708953	800.9405915	173.1535843	1059.514278	10485.29225	288.4530553	-1.485551779	1.287411953	1.0506977
B7L693	TY-2482_chromosome	+	4544219	4544569	80.04634905	79.75094708	74.46864291	46.05231998	78.44330937	58.00695301	0.381785938	0.898164328	0.7176737
B7L694	TY-2482_chromosome	-	4544617	4546164	605.0399968	574.8522514	586.247604	288.650785	386.0112117	287.0977902	0.88896936	4.625851496	4.0346917
D3GV87	TY-2482_chromosome	-	4546331	4546837	601.1834004	610.7558207	641.8323622	167.253625	303.2187166	266.8697319	1.407205262	8.070126121	7.2432894
B7L696	TY-2482_chromosome	-	4546917	4547465	328.2281166	369.7668004	313.3900385	122.4543825	177.6502964	118.7852897	1.225754319	8.322216151	7.4777837
B7L697	TY-2482_chromosome	-	4547639	4548100	1491.731988	1852.851152	1556.00797	494.1815752	764.7436241	399.3577806	1.481191241	10.13130173	9.1978677
B7L699	TY-2482_chromosome	-	4548803	4551949	12858.37679	11854.78234	12926.13984	17446.04443	15019.40952	17359.43873	-0.38176554	0.500181707	0.3846559
B7L6A0	TY-2482_chromosome	-	4551975	4553165	3208.053916	3508.175895	3645.293656	6108.220116	5175.348141	6786.927788	-0.78881496	1.493027391	1.2297067
B7L6A1	TY-2482_chromosome	+	4553307	4553951	423.9009412	483.2685296	431.0116151	193.4599215	254.0434205	189.7407023	1.033049417	4.323660378	5.7043329
B7L7E3	TY-2482_chromosome	+	4554082	4557441	1352.330011	1113.951924	1165.837534	1611.417348	1775.536235	1723.449765	-0.450847275	1.780273621	1.4802882
B7L792	TY-2482_chromosome	-	4557834	4558358	280.424959	293.157148	265.9103434	177.8245116	172.8522551	207.596861	0.588625087	2.448192613	2.0703349
B7L793	TY-2482_chromosome	+	4558428	4558802	152.6257545	137.3610565	147.8953972	86.40391527	75.5307246	60.93262719	0.948562864	5.648141075	4.9800215
B7L794	TY-2482_chromosome	+	4558958	4559506	436.1552051	376.9823136	390.0907655	548.6997399	590.5900517	695.6102382	-0.547721131	2.459339634	2.0803447
B7L795	TY-2482_chromosome	+	4559638	4561566	1657.261381	1569.106244	1588.466345	2511.116102	2565.397689	2930.943249	-0.700263872	1.928305345	1.6090007
P77122	TY-2482_chromosome	-	4561601	4561975	2406.735614	1977.126088	2208.471283	2747.486173	2819.291471	3361.060138	-0.362674345	0.668333314	0.5232697

B7L797	TY-2482_chromosome	+	4561951	4562553	2720.156693	2083.193343	2424.371643	3360.366113	3278.871333	3688.811963	-0.443891374	0.82509142	0.6565467
B7L798	TY-2482_chromosome	+	4562666	4564537	3784.855533	3578.310105	3672.192731	7303.72919	5299.981605	7279.048686	-0.842304145	1.59853588	1.323185
B5Z3Y5	TY-2482_chromosome	+	4564661	4565362	2282.398139	2213.080722	2305.561836	2199.143983	2602.821133	2281.394448	-0.03985252	0.062926554	0.0442611
B7L7A0	TY-2482_chromosome	+	4565601	4566560	1520.326617	1427.998949	1630.29338	974.5076319	965.5385058	1028.729395	0.665453839	2.658212433	2.2579826
B7L7A1	TY-2482_chromosome	-	4566563	4567519	307.2488713	314.6534649	342.1574129	258.1553429	244.7806212	247.3903766	0.36785054	1.143160758	0.9266083
B7L7A2	TY-2482_chromosome	+	4567671	4568972	676.1625467	590.921976	639.756517	1147.905536	1112.045775	1210.265452	-0.826214122	5.133222206	4.5008182
B7L7A3	TY-2482_chromosome	-	4569111	4570784	1764.001924	1847.199779	2016.552126	1271.467402	1059.182328	1390.296182	0.622033444	2.425103914	2.0502004
B7L7A4	TY-2482_chromosome	-	4571025	4572242	162.3956077	125.7613722	165.937863	313.6919047	323.9423871	373.3729921	-1.053402661	7.393491344	6.6178071
B7L7A5	TY-2482_chromosome	+	4572460	4574109	1298.032981	1493.474033	1491.575036	1147.453079	1503.465103	0.07089033	0.148429626	0.1080729	
B7L7A6	TY-2482_chromosome	-	4574152	4574628	275.0193488	291.5138181	329.7245292	351.4065862	359.5035503	312.0464641	-0.190186269	0.454244231	0.3468363
sroB	TY-2482_chromosome	+	4574750	4574833	49.919925	65.33437153	52.67968933	18.47874017	19.14915914	13.45420736	1.609513739	8.884549296	8.0119551
B7L7A7	TY-2482_chromosome	-	4574835	4575626	717.3789716	596.2470007	638.362358	264.0928516	361.3593328	360.2474253	1.067573	5.549680822	4.8994657
B6I0D3	TY-2482_chromosome	+	4575710	4576102	384.9847382	459.6267019	389.363032	464.9149419	587.1765015	350.6117267	-0.272690285	0.393139947	0.2878683
B7L7A9	TY-2482_chromosome	-	4576222	4578723	1382.062752	1265.553265	1356.140926	1100.824923	1020.147149	992.118386	0.368677901	1.139835967	0.9237533
B7L7B0	TY-2482_chromosome	+	4578985	4579914	355.0726239	368.8087548	411.5493169	307.144818	255.5601044	420.2514709	0.276901238	0.467643394	0.3576714
B7L7B1	TY-2482_chromosome	+	4579920	4581209	348.2453961	414.0665607	411.4487567	341.365198	300.1983377	421.8245169	0.155874957	0.296846091	0.2220578
B7L7B2	TY-2482_chromosome	+	4581337	4581741	525.6365647	583.8753933	524.7550984	289.506335	302.1398314	302.5784091	0.843832273	4.650454282	4.0566759
P0AAS3	TY-2482_chromosome	-	4581748	4582203	566.7983027	592.2513547	576.346796	387.6935313	302.0180601	380.064921	0.681484826	3.214874586	2.750875
B7L7B4	TY-2482_chromosome	-	4582203	4583117	886.2280792	774.2212572	925.1753226	625.8456427	616.0892322	626.2440402	0.516233403	1.742337072	1.4494144
B7L7B5	TY-2482_chromosome	+	4583263	4583937	508.4554106	543.0876225	514.2535595	246.2253563	251.1766519	246.0647827	1.056317911	6.959007689	6.2076106
B7L7B6	TY-2482_chromosome	+	4583927	4584703	488.184717	555.6256086	520.232489	284.453516	290.3464416	243.6866671	0.883992698	5.237361826	4.5950495
D3GVD0	TY-2482_chromosome	-	4584772	4585659	1170.634444	862.6361233	1072.295846	2110.615417	1945.605543	2434.879729	-0.970024232	6.311197136	5.5997751
B7L7B8	TY-2482_chromosome	-	4585687	4586493	387.404251	368.8340859	381.6039918	516.7103545	480.4221813	611.4042619	-0.460902996	1.850978836	1.5431602
B7L7B9	TY-2482_chromosome	-	4586486	4587109	638.8931747	473.6838986	597.6201831	476.5009165	582.5141185	509.2377921	0.209408968	0.260206467	0.1935926
B7L7C0	TY-2482_chromosome	+	4587077	4587760	257.3595774	227.5867283	242.9385447	320.5733586	276.5741363	326.1420783	-0.31670451	1.065491926	0.8591587
B7L7C1	TY-2482_chromosome	+	4587760	4590171	329.7889601	337.1954026	316.7902562	445.2145448	391.221141	507.4938057	-0.44423637	1.537511654	1.2675093
B7L7C2	TY-2482_chromosome	+	4590604	4594890	165.27391	164.8830173	160.3580342	105.6875093	115.6286697	97.57300333	0.605919432	2.853909468	2.4308491
B7L7C9	TY-2482_chromosome	-	4596973	4597404	68.70337227	83.42894508	65.11271929	43.61627059	61.07266057	51.35811223	0.433893866	1.725792116	1.040511
B7L7D0	TY-2482_chromosome	-	4597487	4598578	248.9973163	262.2716617	240.8511457	275.065578	261.1220574	311.5565612	-0.175487085	0.407946871	0.3098219
B7L7D1	TY-2482_chromosome	-	4598650	4599573	37.44009805	34.03674244	35.6134266	23.72346418	26.46819957	16.19935547	0.663535597	1.792532866	1.4907409
B7L7D2	TY-2482_chromosome	+	4599803	4600282	39.31851422	59.71146479	48.16100036	25.62957167	25.4826675	23.78466582	0.879171585	3.391133765	2.9087471
B7L7D3	TY-2482_chromosome	+	4600363	4601175	1314.670484	1339.360819	1307.207531	1361.959949	1442.45339	1366.996116	-0.080146128	0.146478222	0.1067476
B7L7D4	TY-2482_chromosome	+	4601268	4603046	75.42675271	75.33639405	86.02115963	97.41048785	83.67822043	85.62744701	-0.168427887	0.366657303	0.2773874
B7L7D5	TY-2482_chromosome	+	4603062	4603835	24.54879099	32.11264458	24.93908097	28.22897919	24.50504161	31.3970376	-0.10026918	0.045088482	0.0309937
B7L7D6	TY-2482_chromosome	+	4603938	4604813	25.24441873	32.57140842	29.05137465	45.64788619	23.5417299	21.55172823	-0.211316539	0.059746536	0.0423705
B7L7D8	TY-2482_chromosome	+	4606499	4607857	55.96627914	57.18483801	64.89072648	54.03060356	29.90313644	31.92464843	0.559667921	1.77272245	1.4743487
B7L7D9	TY-2482_chromosome	+	4607917	4609215	50.26874449	41.98549092	42.77111227	82.9798358	59.93119206	82.68704223	-0.722240954	2.65776813	2.2577774
B7L7E0	TY-2482_chromosome	+	4609240	4610382	153.8170793	206.3597252	160.8838991	178.570007	140.8993305	223.0730183	-0.107251292	0.106978246	0.0789749
B7L7E1	TY-2482_chromosome	-	4610517	4611299	128.0997427	90.00751063	121.6278757	191.4814821	224.832615	217.0306297	-0.793701234	4.669913157	4.0727733
B7L7E2	TY-2482_chromosome	-	4611313	4612545	80.6671181	82.75946389	89.25182703	116.2069903	100.9191961	132.5678702	-0.438282162	1.675663352	1.3899652
B7L7E6	TY-2482_chromosome	+	4615610	4616866	24.39077415	37.0043749	31.05362996	33.01930497	27.25151368	29.0170396	-0.040746116	0.042026749	0.0287268
B7L7E8	TY-2482_chromosome	+	4617692	4618582	33.82138248	30.82302948	25.44066296	32.66889515	33.64306077	39.27723661	-0.223155255	0.360965196	0.2726292
P77130	TY-2482_chromosome	-	4618492	4618776	51.25382236	36.98197023	33.26821693	118.6540867	122.8236027	141.8407019	-1.609135044	1.23090516	1.1286457
B7L7E9	TY-2482_chromosome	-	4618783	4619847	395.6887501	351.3278693	384.2802432	1485.459903	1355.896733	1653.467214	-1.944131514	22.38454459	21.047418
B7L7F0	TY-2482_chromosome	-	4619847	4620353	224.5671713	174.3320681	204.0176347	706.4371189	770.8269139	774.8363888	-1.831645765	18.48328614	17.23556
B7L7F1	TY-2482_chromosome	+	4620474	4621193	837.6577848	778.4060316	786.9201329	1224.093613	1348.764803	1117.228731	-0.620644306	2.634843012	2.2358073
P77131	TY-2482_chromosome	+	4621184	4621867	4968.542988	5311.038042	5178.208414	5631.730452	7945.861428	5394.440709	-0.309614311	0.355259796	0.2684373
B7L7F3	TY-2482_chromosome	+	4621864	4623246	769.6227945	691.1560923	728.8658456	1243.284119	1035.532381	1294.352522	-0.67998918	3.543618344	3.0447412
B7L7F4	TY-2482_chromosome	-	4623288	4623806	50.91530557	38.07991276	54.38780963	47.3776895	35.36855619	52.32419067	0.18058042	0.148585976	0.1081248
Q1RF06	TY-2482_chromosome	+	4623892	4624146	597.728877	505.8462521	519.4608684	564.7712454	565.1391048	555.2467545	-0.033053582	0.09951717	0.0731715
B7L7F6	TY-2482_chromosome	-	4624131	4624994	1521.146776	1450.569792	1463.02168	1896.462876	1854.626745	2206.003757	-0.394447524	1.441142818	1.1845743
B7L8D7	TY-2482_chromosome	+	4626960	4629566	25.37774793	29.92080681	23.57787104	38.43572879	31.83324126	26.64312503	-0.399865211	0.537962244	0.4155536
B7L8E2	TY-2482_chromosome	-	4632118	4632876	37.76904837	59.75156009	50.22771743	30.69260153	20.86375337	20.01360839	0.905764149	3.591392716	3.0875544
B7L8E3	TY-2482_chromosome	-	4633062	4633949	49.95650478	65.1083141	49.28897518	41.79552629	28.11111223	32.99193303	0.558226861	1.916488264	1.598775
B7L8E4	TY-2482_chromosome	-	4633953	4636922	225.9932214	203.9302146	197.2266067	140.1463426	112.7652683	126.3287903	0.712556314	3.545382164	3.0461463
B7L8E5	TY-2482_chromosome	-	4636912	4639146	102.4484162	112.2871271	91.49350511	83.3775577	91.05903124	75.23094224	0.233707153	0.779513146	0.6183402
B7L8E8	TY-2482_chromosome	-	4641084	4641332	93.9161511	131.916109	110.2066939	111.509924	94.797656	19.71278544	0.332036587	1.030643784	0.8287258

B7L8E9	TY-2482_chromosome	-	4641332	4646191	659.4671996	748.6308186	674.651831	340.6417541	330.4410846	203.3685314	1.146115235	7.636810951	6.844331
B7L8F2	TY-2482_chromosome	-	4649341	4650798	63.51889402	55.57765195	72.91410335	93.49390897	107.3600753	131.1326704	-0.678634323	3.385962341	2.9044032
B7L8F3	TY-2482_chromosome	-	4650779	4651459	156.4170957	142.1346113	139.8256016	184.5670495	195.713004	162.1019893	-0.317111369	0.900557799	0.71949
B7L8F7	TY-2482_chromosome	+	4654605	4657745	115.2299645	103.8380017	111.578282	109.8764501	92.76400526	100.0347787	0.134997961	0.272243913	0.2035172
B7L8F8	TY-2482_chromosome	+	4657850	4659223	480.9544241	453.5607363	434.9321237	347.1619618	412.3196834	368.4508707	0.289601426	0.768362534	0.608704
B7L8F9	TY-2482_chromosome	-	4659297	4660541	916.8005599	884.2809369	985.8819648	1231.495984	1214.943031	1055.405588	-0.328103719	0.978551697	0.7842913
B7L8G0	TY-2482_chromosome	-	4660652	4661302	1666.94174	1620.5176	1645.939616	1611.894932	1851.049052	2008.688831	-0.107271155	0.33301507	0.250126
B7N9I3	TY-2482_chromosome	-	4661399	4661884	198.0316033	259.9055053	178.481612	100.0749945	114.6440028	137.739234	0.793764368	3.964317242	3.4262031
B7L8G2	TY-2482_chromosome	-	4661832	4662077	177.1215867	202.5235876	179.4609424	179.4609424	75.3556933	82.83138519	1.194529531	9.100218853	8.2168475
B7L8G3	TY-2482_chromosome	-	4662146	4663261	809.9790133	724.831862	796.9478081	714.430832	656.0642528	816.6933271	0.143079139	0.193699232	0.1429626
P11901	TY-2482_chromosome	+	4663932	4665041	238.6156943	241.6355449	211.0195496	181.1153834	194.7662065	190.765281	0.268678189	0.817815318	0.6506711
P11901	TY-2482_chromosome	-	4665903	4667012	226.4822013	244.4515044	241.0027149	186.9631842	221.2143152	190.9008565	0.242711951	0.655069894	0.5122596
B7L8G6	TY-2482_chromosome	-	4667976	4670213	96.89135914	127.7438802	124.2871303	45.76715516	50.97076364	52.53535051	1.208983995	6.757566898	6.7874101
B7L8G7	TY-2482_chromosome	+	4670534	4671655	124.1002672	140.3991039	113.2823989	28.40924798	24.54297033	23.82225684	2.217391716	21.54420803	20.221322
B7L8G9	TY-2482_chromosome	+	4671876	4675754	580.5384478	482.8205479	506.2771246	132.872172	102.7231119	130.1100397	2.124103979	21.37490379	20.05995
B7L8H1	TY-2482_chromosome	-	4677106	4677918	199.7451169	176.2245252	196.1348567	25.75643885	25.51287251	18.74230912	3.021668433	37.45251171	35.775437
B7L8H2	TY-2482_chromosome	-	4677918	4678907	227.4776171	218.6636424	189.1725193	28.13133003	26.33406131	33.96372488	2.844657615	34.07679396	32.492995
B7L8H3	TY-2482_chromosome	-	4678907	4679908	259.5239531	240.3557127	261.507234	30.20627304	16.26494422	18.66175322	3.497938547	48.49454683	46.627593
B7L8H4	TY-2482_chromosome	+	4680019	4681266	76.39637254	67.59874449	68.55370742	25.26714962	13.49833546	24.77026601	1.746189284	10.29039716	9.348722
B7L8H5	TY-2482_chromosome	-	4681276	4682229	173.6400871	138.2795209	168.462317	36.57725209	44.65291291	38.25264436	2.070353499	20.46608637	19.166576
B7L8H6	TY-2482_chromosome	+	4682604	4683776	49.99495539	64.87353768	45.89656998	20.22291966	7.107063886	16.95362983	1.732981479	8.875722696	8.0038375
B7L8H7	TY-2482_chromosome	+	4683789	4685396	136.9182444	122.0098658	134.055641	56.08162184	56.49493844	36.06889771	1.375699176	9.964620545	9.0344397
B7L8H8	TY-2482_chromosome	+	4685413	4686267	118.374971	79.97689616	115.0907524	37.91297935	18.93016923	34.02280499	1.858563176	11.27068588	10.281586
B7L8H9	TY-2482_chromosome	+	4686270	4687013	128.7311049	123.543342	111.3437076	45.29498623	46.42171306	43.51072242	1.40645997	10.55797007	9.600193
B7L8I0	TY-2482_chromosome	+	4687019	4687429	63.50469959	62.36718012	68.77521325	28.03456753	19.04346028	18.67074812	1.526523034	8.915581245	8.0401392
B7L8I1	TY-2482_chromosome	+	4687613	4689715	1295.402205	1152.10383	1165.191179	443.1945136	375.7177564	542.8393304	1.455299814	11.15797253	10.174405
B7L8I2	TY-2482_chromosome	+	4689900	4690094	177.9836354	168.1223249	182.2890941	106.6793562	101.0502265	76.75918872	0.867949237	5.020056244	4.3945363
B7L8I3	TY-2482_chromosome	-	4690110	4691195	241.5572579	246.9684984	227.626704	122.4742389	111.8601165	139.1935352	0.938285906	5.529168197	4.9885177
B7L8I4	TY-2482_chromosome	+	4691304	4692461	117.6473205	107.8879605	86.71101396	88.37159129	94.61229661	112.8227843	0.08804455	0.140601682	0.1032424
B7L8I5	TY-2482_chromosome	-	4692468	4693094	55.8248202	84.55140172	57.81406837	54.82270984	41.78491054	46.13765878	0.325766015	1.125565692	0.9107333
B7L8I6	TY-2482_chromosome	-	4693070	4694287	30.71168989	28.63905574	28.30077953	40.6499904	28.15430502	24.08408611	-0.149418455	0.110231023	0.0808044
B7L8I8	TY-2482_chromosome	-	4695548	4696291	541.3956083	526.0816528	570.5441457	80.38779609	90.97646666	111.4162519	2.60128992	29.51378078	28.018788
B7L8I9	TY-2482_chromosome	+	4696663	4697223	13958.37805	13979.15178	14224.10745	16748.24756	18714.32537	18452.76613	-0.335302842	0.419270916	0.3193531
B7L8J0	TY-2482_chromosome	+	4697355	4698917	2752.03433	2715.174011	2758.450632	4880.85324	4229.830846	5079.409932	-0.777184345	1.507611565	1.24149
B7L8J1	TY-2482_chromosome	-	4699044	4699469	1500.016312	1602.220935	1680.429751	188.6166454	167.6688241	235.4657592	2.826337216	38.09798141	36.407119
B7L8J2	TY-2482_chromosome	+	4699690	4700925	76.23912523	68.27855685	85.41255221	148.8830075	121.9160722	106.946601	-0.716752513	3.213997279	2.7502746
C3TJV7	TY-2482_chromosome	+	4701009	4701467	331.8887534	397.7653894	334.5553988	281.4583806	335.8677488	309.1925536	0.160193809	0.470396831	0.3600545
D3GX75	TY-2482_chromosome	-	4701802	4702623	846.6190882	776.0746566	819.3413458	435.6177399	571.5960002	527.5040357	0.721052061	3.013460126	2.5721245
B7L8J5	TY-2482_chromosome	-	4702722	4704182	42.07489403	86.26438728	62.70547482	46.8950412	31.83583652	16.5602456	0.736990968	2.756076309	2.3454394
B7L8K1	TY-2482_chromosome	-	4708403	4709458	41.94597072	38.94964904	38.18442961	28.89760795	19.99600639	12.39605219	0.861257936	2.880514738	2.4534026
B7L8K2	TY-2482_chromosome	+	4709838	4711493	206.2297499	250.9794292	213.7733428	176.0785297	121.8576892	116.1781515	0.57486516	2.908643343	2.4784674
B7L8K3	TY-2482_chromosome	+	4711465	4712142	344.6349884	365.7493165	374.4268076	105.8776986	91.85825426	99.99687834	1.852345685	18.57866499	17.329252
B7L8K4	TY-2482_chromosome	-	4712189	4713571	2695.762095	3005.778559	3104.567877	101.451392	80.00794538	86.92440896	5.003532529	89.1660995	86.460996
B7L9L5	TY-2482_chromosome	+	4714160	4714717	112.020023	128.1903965	122.1510614	45.09882374	64.7986422	37.3216369	1.256842738	7.984131276	7.1648917
Q8D127	TY-2482_chromosome	+	4714865	4715101	20735.1158	26340.77977	21240.85048	9512.365697	25639.55762	7771.177728	0.591750081	0.818044738	0.6507607
B7L9G9	TY-2482_chromosome	-	4715161	4715541	171.7725258	215.0077488	190.7625967	106.4567384	179.5052354	122.6149213	0.47413934	1.595033896	1.3204
C8UJU2	TY-2482_chromosome	+	4715634	4716419	132.9232622	149.2473083	155.3048269	100.1517819	100.1517819	76.71485909	0.614475939	2.843604804	2.4218029
B7L9H1	TY-2482_chromosome	+	4716551	4716751	807.0654149	706.6578947	733.4311246	160.3719051	276.958681	153.1728204	1.950885546	15.4031613	14.244875
B7L9H2	TY-2482_chromosome	-	4716858	4717820	2598.004248	2404.187570	2676.038557	8451.31341	8024.772679	9416.94311	-1.70784259	5.218539968	4.578726
B7L9H3	TY-2482_chromosome	-	4718032	4718982	109.5457527	81.17700483	82.25353437	60.29235326	77.49507323	50.42371488	0.55138979	1.711494675	1.4226621
C6V152	TY-2482_chromosome	-	4719244	4719882	275.9520287	243.6052263	298.6623817	393.1247343	434.0999038	453.7456328	-0.573216275	2.806558932	2.3890087
B7L9H5	TY-2482_chromosome	-	4719986	4720246	256.7256846	204.9756932	228.3872652	333.7678202	527.1565003	346.3908406	-0.752942445	3.44874515	2.9590739
B7L9H6	TY-2482_chromosome	-	4720360	4721568	1045.406256	1041.134673	1125.823263	2202.681412	2200.509921	2091.945917	-1.00808956	6.285894458	5.5749618
B7L9H7	TY-2482_chromosome	-	4721710	4722795	1814.401933	1674.518698	1574.43649	1847.366227	1613.423023	2034.974418	-0.105703022	0.24620553	0.1826867
B7L9H8	TY-2482_chromosome	-	4722809	4723918	1032.15018	966.0431151	895.7043416	857.261335	1079.381685	1043.171486	-0.016329878	0.079362103	0.0576063
B7L9H9	TY-2482_chromosome	-	4723924	4725822	605.7406673	640.660016	561.6384469	705.68086	792.6613235	837.8655674	-0.373712678	1.179198099	0.9577615
B7L9I0	TY-2482_chromosome	-	4725856	4726320	839.1962452	762.9941667	761.1240668	885.0323303	1011.108071	960.4017663	-0.249032567	0.816061985	0.6490576

B7L9I1	TY-2482_chromosome	-	4726327	4726641	569.0264238	559.651712	625.4164098	735.8862556	880.0765905	823.566591	-0.433794504	1.734472573	1.4428555
P77108	TY-2482_chromosome	+	4726655	4726942	140.8574787	104.8330222	122.0916703	204.8787067	216.6291922	190.9529089	-0.688826626	3.498096565	3.0039953
B7L9I2	TY-2482_chromosome	-	4726904	4727512	279.1376375	247.6891871	232.8122607	401.8929403	388.5609758	413.0510138	-0.657074306	2.982668697	2.5444764
B7L9I3	TY-2482_chromosome	-	4727539	4728177	521.3613595	474.4920786	473.2633497	805.7212636	807.1958163	848.5052662	-0.726070549	3.7315136	3.2117322
B7L9I4	TY-2482_chromosome	-	4728182	4729210	1224.320875	1082.819411	1160.014333	1886.514628	1960.210798	2294.122043	-0.766305785	4.246121496	3.6881792
B7L9I5	TY-2482_chromosome	-	4729213	4729791	2006.571202	1798.679534	1853.860126	3180.295586	3446.366096	3603.338425	-0.815582353	1.807269009	1.5034038
B7L9I6	TY-2482_chromosome	-	4729809	4732388	5785.304825	5600.128407	5632.414183	12424.50592	10731.20308	14890.97804	-1.126772035	2.467855947	2.0872639
B7L9I7	TY-2482_chromosome	+	4732623	4733102	911.5032045	983.6447804	961.3022556	702.2174858	628.8060307	638.1741134	0.507072635	2.26020919	1.9021106
B7L9I8	TY-2482_chromosome	-	4733178	4734152	156.9245212	193.7725845	147.5797882	141.8043772	154.7604628	131.7743925	0.131195201	0.512632774	0.3946167
B7L9J3	TY-2482_chromosome	+	4737816	4739264	96.41942281	102.6474948	95.64418073	56.90560688	80.26284395	49.1309249	0.627807457	2.447661137	2.0700305
C8TKH1	TY-2482_chromosome	-	4739330	4740997	76.11193121	89.43135061	83.85281694	118.6081148	86.34592882	101.3487926	-0.353027169	0.814279247	0.6478336
B7L9J7	TY-2482_chromosome	-	4741084	4742016	1040.180172	1053.734871	1089.437462	1201.237584	1109.159881	2136.62234	-0.376317727	1.36101659	1.1152221
B7L9J8	TY-2482_chromosome	-	4742137	4742859	341.5839847	373.4883832	393.659513	122.3751983	145.6054128	166.7284624	1.398906714	10.09293682	9.1603184
B7L9J9	TY-2482_chromosome	-	4742862	4743533	179.4498505	178.0260527	183.5651937	91.5453645	74.55700275	80.33115463	1.118680918	8.119241252	7.2859704
B7L9K0	TY-2482_chromosome	-	4743536	4744273	152.5723652	140.0096327	156.5657436	57.54446633	60.02281833	73.36159673	1.297719066	8.628776923	7.7694606
B7L9K1	TY-2482_chromosome	-	4744446	4745351	340.763635	441.1723859	370.2670112	248.9681314	247.5475981	225.1594658	0.594107305	2.933657268	2.5003957
C8U318	TY-2482_chromosome	+	4745806	4747679	147.4934492	117.4967751	137.3541744	110.4733243	135.5884778	162.6719366	0.087549715	0.018425293	0.0122922
C5W100	TY-2482_chromosome	+	4747651	4747857	110.0450284	121.6795816	79.29701182	117.0888623	179.4741488	125.2698037	-0.513747743	1.287430645	1.0506977
B7L9K4	TY-2482_chromosome	-	4747763	4749298	783.9527615	738.7883661	599.0339946	856.5646112	1088.475784	1082.577741	-0.505724076	1.967129178	1.6426392
B7L9K5	TY-2482_chromosome	-	4749326	4750201	1656.575354	1532.994368	1496.601615	1758.496371	1805.505052	2069.205303	-0.234682707	0.714758381	0.5624586
B7L9K6	TY-2482_chromosome	-	4750294	4750758	990.9491466	930.3382905	941.4270704	1157.938558	949.0732155	1190.429527	-0.192231636	0.491393771	0.3772315
B7L9K7	TY-2482_chromosome	-	4750758	4751834	2371.388547	2234.074157	2468.068061	2331.286645	2293.294031	2516.63946	0.023816608	0.013879581	0.0089993
B7L9K8	TY-2482_chromosome	-	4751951	4753372	946.1398501	891.306455	825.0626915	1461.70698	1437.826457	1698.18536	-0.771357609	3.916589155	3.3833749
B7L9K9	TY-2482_chromosome	+	4753518	4754690	775.3034082	964.205258	809.2847155	637.8248347	505.8621353	664.1341123	0.438216829	1.762405108	1.4661071
A1A8T1	TY-2482_chromosome	+	4754844	4755122	701.7209307	648.7303777	525.0696122	844.7327304	1383.58389	770.2549362	-0.710481279	2.520413699	2.1340693
glnV	TY-2482_chromosome	-	4754847	4754921	307.7116321	282.4805546	197.3844334	211.8806149	486.3971577	245.2791547	-0.284870397	0.475712138	0.3640182
glnV	TY-2482_chromosome	-	4754959	4755033	487.8527327	437.8315782	369.3012003	517.5587476	934.0630017	493.9915006	-0.602365927	1.808691935	1.5042227
metT	TY-2482_chromosome	-	4755082	4755158	348.6857488	331.8065189	270.9294197	627.6160697	878.4408404	504.5387073	-1.133599325	5.62155118	4.9574018
glnU	TY-2482_chromosome	-	4755174	4755248	1140.109343	869.40393	863.2750237	1290.648374	2179.918642	1108.479931	-0.653555318	2.260570956	1.9022553
A1A8T2	TY-2482_chromosome	+	4755282	4755528	3754.542466	3081.206155	2687.347084	2465.433572	4610.746523	2038.755137	0.050125359	0.060196262	0.0426221
glnU	TY-2482_chromosome	-	4755283	4755357	2220.79249	1639.745186	1631.757698	1723.288316	3287.529104	1495.360809	-0.217164193	0.377454204	0.2864277
leuW	TY-2482_chromosome	-	4755381	4755465	2736.752882	2307.997482	1846.751924	1465.231714	2832.542725	1144.225658	0.304751796	0.545135063	0.4208302
metT	TY-2482_chromosome	-	4755474	4755550	1258.900579	1189.122853	868.9005646	543.9615631	1006.977113	374.6758279	0.703352157	2.514097508	2.1282161
D8ENZ6	TY-2482_chromosome	+	4755594	4755785	33.99730977	48.44139439	53.88102727	21.19496095	39.32952374	23.94548536	0.69545767	1.763783006	1.4669198
B7L9L0	TY-2482_chromosome	-	4755934	4757595	635.3961406	779.4742771	744.1575049	178.9675269	177.3714082	245.458736	1.860779653	1.637136909	15.297406
D8C3Y4	TY-2482_chromosome	-	4757552	4757830	48.48644611	51.66381874	54.91441513	16.54601163	21.80036838	33.54611794	1.203370408	4.305307063	3.742176
B7L9L1	TY-2482_chromosome	-	4757855	4758604	808.4990443	772.8430891	731.3641429	774.0227442	839.0590723	907.5811294	-0.103485922	0.279059814	0.208434
B7L9L2	TY-2482_chromosome	-	4758655	4759872	1636.948679	1651.422296	1737.158872	1522.866908	1428.713494	1698.220241	0.137926731	0.237624661	0.1759742
B7L9L3	TY-2482_chromosome	-	4759884	4761029	1348.401108	1234.692558	1338.337281	1471.244613	1229.390966	1427.366398	-0.056198546	0.14259085	0.1041097
B7L9L4	TY-2482_chromosome	-	4761092	4761889	966.9447288	899.9546161	1019.54907	1355.478968	1334.122428	1341.957472	-0.452370304	1.754056705	1.4592621
B7L9L6	TY-2482_chromosome	+	4762222	4764165	3324.741915	3544.415863	3735.0893	4751.031426	3661.014285	4537.440288	-0.29568207	0.364058695	0.2752266
B7L9L7	TY-2482_chromosome	+	4764371	4766032	3740.820604	3387.772244	3376.967992	2617.958762	2515.250707	3893.404875	0.297099146	0.259411882	0.1931307
B7L9L8	TY-2482_chromosome	+	4766481	4767884	104.621612	117.5823657	102.176242	60.06166338	89.36720095	59.53669608	0.598299085	2.36191903	1.9937202
B7L9L9	TY-2482_chromosome	+	4767937	4768260	47.09304928	46.60344795	47.52960186	27.30531519	19.04130787	19.91488908	1.049850204	4.15823725	3.6050825
B7L9M0	TY-2482_chromosome	-	4768350	4768793	1777.490452	1865.021984	1952.425186	2151.063285	2915.955991	2242.049375	-0.372231161	0.689726105	0.5409255
B7L9M1	TY-2482_chromosome	+	4768838	4769089	733.4273134	831.6228804	841.2548268	1142.388336	1509.010649	1148.807109	-0.666550823	2.760761778	2.3486527
D3GXD6	TY-2482_chromosome	-	4769085	4769729	1628.711736	1684.639655	1712.686683	1679.72093	2363.57693	1701.43411	-0.203475459	0.478195372	0.3658856
B5YQM9	TY-2482_chromosome	-	4769755	4770114	155.5703416	180.7481684	123.6055422	92.98401403	102.8287666	112.935424	0.51504666	2.158896269	1.8121511
B7L9M4	TY-2482_chromosome	-	4770188	4770949	409.9043588	366.6622646	392.1681191	294.1712463	300.3215044	292.1230691	0.422271883	1.353500248	1.1084593
D3GXD9	TY-2482_chromosome	+	4770999	4771676	1376.170398	1183.425584	1275.53797	2284.828056	1978.365692	2353.475911	-0.752937629	3.88920184	3.3576087
B7L9M6	TY-2482_chromosome	+	4771705	4773342	4130.458875	3501.863667	3898.700492	7771.737215	6694.241321	8297.348008	-0.933916369	1.987421818	1.6609184
B7L9M7	TY-2482_chromosome	-	4773404	4774720	143.5912519	137.0356929	143.9463981	248.6569631	283.0567497	276.2384112	-0.896839782	5.36823738	4.7170659
B7L9M8	TY-2482_chromosome	-	4774720	4776915	55.33039334	56.53679373	53.38526928	221.3169568	189.186299	247.0313727	-1.986853423	19.57397881	18.29665
C8UJZ6	TY-2482_chromosome	-	4777608	4778282	232.7766808	228.3241747	171.8030582	60.2084307	63.68159833	72.15435057	1.667512624	14.63839608	13.514345
B7LAF0	TY-2482_chromosome	-	4778282	4780963	321.6170443	311.8017537	301.6085985	210.6787285	212.9254328	232.7257857	0.523147183	1.994570399	1.667259
B7LAA3	TY-2482_chromosome	-	4780959	4781528	39.01985489	29.7525135	36.33545084	32.51782923	37.29639013	44.43142327	-0.021377085	0.1411746	0.1034206
B7LAA4	TY-2482_chromosome	-	4781540	4783585	42.7582476	38.8186522	35.43681402	59.33457655	21.59004289	45.91470248	-0.170141694	0.147093638	0.1071568

B7LAA5	TY-2482_chromosome	-	4783611	4785281	25.19427036	36.87932575	28.97177062	45.97976531	28.1075231	29.24341141	-0.329084501	0.278017249	0.2079508
B7LAA6	TY-2482_chromosome	+	4785683	4785886	1070.834885	1163.560455	1054.256263	447.04352	1083.543109	373.3499568	0.753464558	2.355726507	1.9881936
B7LAA7	TY-2482_chromosome	+	4786132	4790322	285.6889241	288.2919781	269.2315569	331.0850024	266.5215547	354.9291441	-0.180594641	0.394924959	0.2992977
B7LAA9	TY-2482_chromosome	+	4790769	4792199	44.28826931	34.6710041	38.88713796	54.18091137	39.9524477	46.10474707	-0.235368192	0.465514042	0.3560296
C8UJN2	TY-2482_chromosome	+	4793374	4794288	7.306708471	8.246656741	11.48173871	28.2339435	30.06221913	25.18084182	-1.593399803	5.36220796	4.7118881
B7LAB3	TY-2482_chromosome	+	4794283	4794789	477.0802064	466.7579495	500.5433978	370.2124492	347.5500518	456.0960235	0.34811946	0.829948163	0.6604204
B7LAB4	TY-2482_chromosome	+	4794789	4796204	848.7599981	857.8371758	858.9501273	953.5432358	836.2383021	1065.344978	-0.138383504	0.368642286	0.2791082
B7LAB5	TY-2482_chromosome	-	4796252	4797730	163.7767939	150.3853192	171.1248063	204.8089081	212.9568806	210.5116589	-0.335578371	1.216150362	0.9878467
B7LAB6	TY-2482_chromosome	+	4798001	4798741	1057.256381	1151.463577	1230.867435	1532.531949	1044.565195	1461.438432	-0.240147531	0.556280338	0.4304526
B7LAB8	TY-2482_chromosome	+	4799417	4800346	1081.917435	1286.850497	1184.434169	1678.792847	1218.388598	1780.972765	-0.42687431	1.177174139	0.9566872
B7LAB9	TY-2482_chromosome	+	4800339	4801070	790.3020012	877.990792	872.8921238	1084.159358	950.888801	1292.814927	-0.373957239	1.287376879	1.0506977
B7LAC0	TY-2482_chromosome	+	4801109	4801897	534.7672674	477.596263	530.8910997	782.6946345	766.2158787	877.3094972	-0.60277741	2.948097228	2.5132847
B7LAC1	TY-2482_chromosome	-	4801900	4802943	1336.482579	1310.782604	1162.401113	288.8079431	306.6916292	310.4381184	2.063222668	24.50482953	23.105555
E1U309	TY-2482_chromosome	-	4803783	4804477	190.6279537	207.9836807	188.7047389	81.65500895	110.1970807	101.2413044	1.006527851	6.084126968	5.3871507
B7LAC6	TY-2482_chromosome	-	4805773	4807053	11331.34359	9990.160055	11081.43071	3405.693302	2965.739235	4049.022361	1.697705332	4.472282928	3.8953636
D6HU93	TY-2482_chromosome	+	4807035	4807223	2156.819871	1866.434165	2236.400282	573.6930844	675.3066496	640.6845764	1.79547066	15.37158973	14.217394
D6J831	TY-2482_chromosome	-	4807493	4807729	1175.524024	1254.033703	1194.303928	299.1818752	337.6408875	351.119985	1.883449766	20.43960397	19.141986
B5YQQ9	TY-2482_chromosome	+	4807747	4808148	1865.771715	1891.010331	2013.827071	642.674423	605.9875508	848.0048418	1.516802723	10.85386826	9.8873695
B7LAC9	TY-2482_chromosome	+	4808145	4808489	1728.763663	1995.886463	2051.516598	494.3828529	396.6102564	647.8950134	1.942251815	16.57911412	15.383661
B7LAD0	TY-2482_chromosome	+	4808492	4810255	16848.75077	16483.30913	18146.69902	3121.73282	2047.408787	3243.892501	2.636456763	9.179817993	8.2942588
B7LAD1	TY-2482_chromosome	+	4810274	4810987	9314.35773	8884.484378	9189.800155	1298.445554	1089.229219	1348.303843	2.889951959	12.09302923	11.065127
B7LAD2	TY-2482_chromosome	+	4811191	4813989	33765.75341	31350.7921	31903.1404	11628.69564	7360.234596	14986.57813	1.568040496	3.304331538	2.8299611
B7LAD3	TY-2482_chromosome	+	4814007	4815221	27987.236	24839.5277	26429.17429	13250.3459	8532.416017	14671.17375	1.159167609	2.08805455	1.7492706
B7LAD4	TY-2482_chromosome	+	4815318	4816481	24813.99906	24300.79906	26155.96283	12177.52412	7107.264773	11767.81609	1.281850815	2.584385112	2.1922112
B7LAD5	TY-2482_chromosome	+	4816484	4817350	19209.65928	19576.43779	20433.02493	9355.50002	6180.884432	8801.252889	1.273780435	2.725178714	2.3187734
B7LAD6	TY-2482_chromosome	-	4817460	4818179	155.0743131	115.1621601	133.972405	110.6613975	111.115406	69.06875059	0.470116609	1.527486218	1.2590757
B7LAD7	TY-2482_chromosome	+	4818288	4820261	19.76978808	7.497195094	15.17331228	36.6033844	31.89123384	17.72507217	-0.949022946	2.454503941	2.076419
B7LAD8	TY-2482_chromosome	+	4820282	4822912	145.7565426	166.2260822	138.4230493	165.0203183	148.3081257	146.1726256	-0.097887247	0.060310666	0.0262374
B7LAE0	TY-2482_chromosome	+	4823762	4825327	15582.9869	12249.65615	13606.70752	86405.60497	67184.42234	88042.02666	-2.497559324	7.810559953	7.0061273
B7LAE1	TY-2482_chromosome	+	4825346	4826482	7459.251105	5645.526495	6433.92413	57991.66898	46156.77836	59907.59647	-3.012686433	10.88443976	9.9161756
B7LAE2	TY-2482_chromosome	+	4826613	4826903	899.171403	727.6218084	755.7995984	5351.750876	4531.047711	5551.700901	-2.66035013	11.83770775	10.820827
B7LAE3	TY-2482_chromosome	+	4827056	4827457	316.2839199	322.0699774	324.840856	327.4276374	426.040264	323.9204059	-0.160240189	0.359897811	0.2719116
B7LAE4	TY-2482_chromosome	+	4827457	4828146	502.5972675	454.3355137	501.8407581	1033.39027	1250.481108	1130.158188	-1.181544284	9.26512738	8.375897
B7LAE5	TY-2482_chromosome	+	4828153	4828578	298.3432184	308.9278733	298.3663763	613.8784666	647.0439643	668.2528644	-1.087562452	7.276965342	6.5063607
B7LAE6	TY-2482_chromosome	+	4828646	4829968	984.1680453	943.2419646	980.4537007	1235.749142	1276.771445	1437.739582	-0.405407629	1.501165678	1.2364468
B7LAE7	TY-2482_chromosome	+	4830044	4831333	7834.571444	6497.482305	6963.412279	11528.9342	10656.67099	10851.25784	-0.610244594	0.98320225	0.7884952
Q1REI4	TY-2482_chromosome	-	4831308	4831922	13850.04369	12480.81561	13642.47553	16959.35785	16076.037	16213.69771	-0.280458312	0.341739716	0.2573509
B7LAE9	TY-2482_chromosome	+	4831902	4832690	4988.873228	4449.692238	5126.201641	6976.633023	5628.566949	6651.674788	-0.374226481	0.540880416	0.4174615
lysV	TY-2482_chromosome	+	4832858	4832933	3151.445205	3385.800193	2616.07259	1559.937827	2705.069672	1194.161154	0.663400663	1.317082284	1.0770314
valY	TY-2482_chromosome	+	4832969	4833044	2523.410179	2382.231844	1976.316953	1422.064461	2372.871498	1103.337603	0.43995738	1.018396681	0.8181418
lysV	TY-2482_chromosome	+	4833048	4833123	1761.314907	1599.977948	1534.183168	1049.886906	1407.1336104	909.6122202	0.528080359	1.889769947	1.5761351
valY	TY-2482_chromosome	+	4833273	4833348	491.9672362	517.7685119	531.5613048	515.7295376	861.2398745	444.0691523	-0.252523996	0.508629869	0.3913624
lysV	TY-2482_chromosome	+	4833353	4833428	335.7424071	322.700634	355.9871852	373.3466132	546.2659901	333.3897141	-0.291689666	0.768658995	0.6087255
lysV	TY-2482_chromosome	+	4833575	4833650	169.634719	187.5791718	180.236006	212.5998094	248.5147989	213.2855076	-0.343714014	0.985815059	0.7905116
lysV	TY-2482_chromosome	+	4833684	4833759	62.12437802	79.16646349	40.87835693	112.2535442	127.48868	98.98450789	-1.053975947	3.867777992	3.3374774
lysV	TY-2482_chromosome	+	4833793	4833868	34.73445441	32.38740076	17.82997727	53.02953239	69.29917346	46.4248017	-1.078164943	3.484346673	2.9917271
B7LAF1	TY-2482_chromosome	+	4834117	4835157	165.3769473	133.1743429	166.5410352	165.3079169	85.46951589	105.0389223	0.772737741	3.307915679	2.8329775
B7LAF2	TY-2482_chromosome	+	4835198	4835914	225.0720005	231.6356269	221.0929784	120.5196901	126.4439432	160.0787547	0.767542857	3.593754774	3.0894414
B7LAF3	TY-2482_chromosome	-	4835917	4836855	360.510009	330.4984144	353.9013347	186.8979297	204.7536358	223.448967	0.814486864	3.979246853	3.440146
B7LAF4	TY-2482_chromosome	+	4836972	4837349	346.8080214	358.8007769	425.5343773	374.5545735	594.5408466	343.9455145	-0.190246342	0.450927524	0.3440067
D6J868	TY-2482_chromosome	-	4837438	4837662	201.219801	232.0850392	152.5806137	102.8244467	131.1451001	108.0295568	0.689607506	3.489303384	2.9957824
B7LAF5	TY-2482_chromosome	+	4837665	4838714	3492.998307	3753.001241	3937.11972	2445.720117	2209.546871	2440.40454	0.656303198	1.177320137	0.9566872
B7LAF6	TY-2482_chromosome	-	4838878	4839627	9676.950351	9978.828057	10258.12632	11869.08816	12164.70149	10301.56095	-0.217895605	0.122691681	0.1576189
B7LAF7	TY-2482_chromosome	-	4839835	4840872	3405.700134	3204.883728	3323.60462	3933.736857	3649.238135	4305.79289	-0.231469859	0.324053393	0.2438051
B7LAF8	TY-2482_chromosome	-	4840869	4842014	2065.508617	2014.761392	2120.061826	2318.965292	1818.13178	2605.812414	-0.091133784	0.154996716	0.1133851
B7LAF9	TY-2482_chromosome	-	4842021	4843064	1188.29551	1215.602769	1160.597114	1713.55491	1201.982043	1925.543575	-0.436416321	1.364368017	1.1181544
B7LAG0	TY-2482_chromosome	-	4843077	4844090	1362.638578	1288.211974	1263.568821	1969.564194	1567.872363	2232.174665	-0.537899883	2.120731733	1.7781367

B7LAG1	TY-2482_chromosome	-	4844354	4845823	3019.809033	2882.753525	2930.079621	3646.136195	3380.783307	3826.989942	-0.281958866	0.391469287	0.2966714
B7LAG3	TY-2482_chromosome	-	4845894	4846679	653.4882368	745.9465051	660.759577	469.5332597	427.6508213	510.2489061	0.522497356	2.097974233	1.7583591
B7LB71	TY-2482_chromosome	+	4847124	4847894	602.0065288	575.0282206	614.0720638	631.2133557	523.1714821	660.2164538	0.003946376	0.030504727	0.020494
B7LB72	TY-2482_chromosome	+	4847897	4848583	295.3206856	338.6286375	277.696156	258.7164726	227.4170631	291.7633136	0.192187136	0.571363133	0.4424733
B7LB73	TY-2482_chromosome	+	4848589	4849644	352.9156327	393.0460562	336.5055552	397.5233368	348.5026397	357.9456637	-0.088992677	0.052832545	0.0374348
B5YRG4	TY-2482_chromosome	-	4849651	4850568	574.3113415	589.6901933	565.7394521	542.1098626	621.5728275	665.4784551	-0.058410885	0.156985245	0.1149545
B7LB75	TY-2482_chromosome	+	4850621	4851613	2147.025526	2089.47551	2201.270762	2620.054411	2344.147684	3636.935538	-0.349651971	0.617335937	0.4818668
B5YRG6	TY-2482_chromosome	-	4851660	4852610	27.37035912	44.00898636	32.92038097	20.76273173	28.29206853	22.47817609	0.45279768	1.100409059	0.8893058
B7LB80	TY-2482_chromosome	+	4853922	4855352	40.74228445	25.05480382	30.19987232	29.23234118	24.56615844	18.78721113	0.419420605	0.749480922	0.592699
B7LB81	TY-2482_chromosome	+	4855538	4857796	99.2772457	124.666833	104.1807011	93.25593538	65.44757301	60.90880371	0.453918903	1.983540849	1.6576425
B7LB82	TY-2482_chromosome	-	4858036	4859316	893.0708658	753.454285	835.8569377	1248.983811	1131.096272	1471.792151	-0.569964954	2.620914788	2.2233321
B7LB83	TY-2482_chromosome	-	4859454	4860521	220.0250355	179.235617	206.0161377	214.3126023	212.0909103	163.5750871	0.044705622	0.065377709	0.4063147
C6V292	TY-2482_chromosome	+	4861167	4861766	77.72984321	84.38533911	75.12489925	40.98902689	43.79562028	21.72411767	1.054468564	5.246691086	4.603961
B7LB86	TY-2482_chromosome	-	4862303	4862611	40.47933861	25.7632038	43.90209117	11.49167362	7.230587986	6.784459169	2.156562726	9.417039807	8.5211222
B7LB88	TY-2482_chromosome	-	4862938	4863615	81.49406056	77.87857363	84.57710616	28.48310878	20.8512587	25.01395618	1.710019018	11.72211416	10.711129
B7LB89	TY-2482_chromosome	-	4863615	4864397	132.5812749	109.202233	112.7468123	28.96208325	22.66010302	31.37415608	2.126840671	18.28733393	17.047944
P03702	TY-2482_chromosome	-	4864406	4864774	62.12544685	54.97259916	60.76209724	7.05259397	11.94318746	5.541486545	2.8577777	19.16050935	17.897363
E2QKN0	TY-2482_chromosome	-	4864778	4865194	81.11870958	71.61513564	50.23023146	12.89916351	5.347542388	9.241239231	2.78661949	18.43510224	17.189056
B7LB92	TY-2482_chromosome	-	4865582	4866331	676.6539501	746.5609176	727.5946566	630.4336627	739.0915657	517.5226653	0.147087495	0.444162763	0.3390639
B7LB93	TY-2482_chromosome	+	4866374	4866601	109.2792321	100.8355312	98.9042118	42.44576267	65.75842208	32.17916416	1.117587481	5.633656123	4.9681874
B7LB99	TY-2482_chromosome	+	4869472	4870263	43.38590616	43.692502	40.82078062	23.09109689	35.80075603	3.495553948	0.909559697	2.371970021	2.0022133
B7LBA8	TY-2482_chromosome	-	4873704	4874783	82523.96452	82975.04898	87038.83509	16957.25022	13067.36466	12355.30306	2.530418524	7.983161908	7.1645495
B7LBB3	TY-2482_chromosome	-	4877597	4878019	46.21862183	51.41445598	52.91859417	14.11529704	15.59647062	1.908781687	2.108930014	11.46692808	10.47034
B7LBB6	TY-2482_chromosome	+	4879203	4880861	28.63249718	21.54111362	22.26816233	21.52648169	26.4510897	21.19848602	0.097936094	0.07751557	0.0560598
B7LBB9	TY-2482_chromosome	+	4881327	4882925	49.9373399	67.39631853	49.26310524	43.20686122	43.65246135	49.83061009	0.21433752	0.557194716	0.4311126
B7LBC1	TY-2482_chromosome	+	4884232	4884567	26.32781699	21.31040096	21.64048081	28.6792589	18.10470851	21.18359738	0.005848057	0	0
B7LBD0	TY-2482_chromosome	+	4889030	4891588	29.57041069	40.71498667	43.88713466	30.10888292	17.07679522	47.73425273	0.319315239	0.386025101	0.2928812
B7MSE1	TY-2482_chromosome	+	4893991	4895823	79.5599322	64.98078956	59.08635421	53.11731804	50.9188696	59.0476027	0.341401606	0.763505414	0.6048078
C8U2R4	TY-2482_chromosome	+	4895778	4897694	41.09940995	37.08974556	45.06043457	32.49150014	40.05826101	43.20717163	0.170743827	0.156785254	0.1148594
B7LBD7	TY-2482_chromosome	+	4899437	4901695	66.65901486	64.2335592	56.53630263	35.94623413	54.83674349	24.33519489	0.649290455	2.020910239	1.6897403
B7LBD9	TY-2482_chromosome	-	4902359	4903687	298.0333533	370.5275172	400.4342933	381.9856426	428.144352	19.95257411	0.172561772	0.340449742	0.2564074
B7LC55	TY-2482_chromosome	-	4904436	4904909	690.9727815	700.6272939	690.5629851	595.0427755	1061.452832	588.6573001	-0.106906056	0.194264921	0.1432313
B7LC56	TY-2482_chromosome	-	4904971	4906257	104.9009563	76.75502354	97.79348183	79.55081991	74.60469735	73.76675315	0.352942262	0.810957778	0.6453489
B7LC57	TY-2482_chromosome	+	4906344	4907381	81.91243768	46.73328101	68.02649633	76.79724152	43.51026765	61.82708465	0.179620385	0.181861697	0.1344517
B7LC58	TY-2482_chromosome	+	4907381	4908532	63.87741323	38.67285562	55.51334298	57.37582127	41.74795638	55.1360502	0.126032799	0.069493887	0.0498339
B7LC59	TY-2482_chromosome	+	4908522	4909274	33.7922316	30.93172033	26.81578518	39.28847331	24.46520979	27.81390806	-0.064878616	0	0
B7LC60	TY-2482_chromosome	+	4909270	4909944	37.52724111	33.70400692	30.81744525	27.24778232	16.25187279	24.88683826	0.55616761	1.326162853	1.0846209
B7LC61	TY-2482_chromosome	+	4910526	4912544	1628.158951	1438.276582	1535.680411	2381.449534	1989.279704	2348.26525	-0.524265942	1.472735146	1.2115032
B7LC62	TY-2482_chromosome	-	4912742	4913647	424.6918996	430.4890184	455.6567675	452.4504457	489.6618873	417.2834059	-0.053981581	0.098228389	0.0723512
B7LC63	TY-2482_chromosome	+	4914044	4915030	2968.245033	2805.397342	2769.576088	832.8588172	1011.061781	1182.284802	1.558311247	7.552050082	6.766606
B7LC64	TY-2482_chromosome	+	4915055	4915564	413.3709354	488.3516616	444.2846698	1505.705825	1517.928338	1715.350573	-1.832712833	17.0882748	15.880716
B7LC65	TY-2482_chromosome	+	4915570	4916052	318.3308626	373.070888	382.4461348	1445.246756	1493.364401	1677.186083	-2.091709318	24.69914198	23.295069
B7LC66	TY-2482_chromosome	+	4916048	4916290	159.3241357	145.1329142	159.8323797	772.6915989	800.7985011	960.0474131	-2.385039266	28.21721253	26.761987
B7LC67	TY-2482_chromosome	+	4916295	4916744	303.7508444	224.2009366	319.8915889	1058.974261	1165.759865	1312.696482	-1.933571557	20.14598118	18.853991
B7LC68	TY-2482_chromosome	+	4916884	4917585	2215.774425	2261.742403	2330.019799	1189.819583	1213.979704	1343.061691	0.884335163	4.660072745	4.0651036
B7LC71	TY-2482_chromosome	-	4919259	4920212	112.1280498	113.496428	115.555083	77.8421994	80.02025666	106.1010516	0.418949818	1.186794841	0.9634527
B7LC72	TY-2482_chromosome	-	4920215	4921453	301.2619937	311.9656732	334.2162113	228.5966776	227.5238902	209.3517045	0.505855367	1.991899542	1.6651943
B7LC73	TY-2482_chromosome	-	4921453	4922211	255.7257489	223.2832281	291.5122522	173.3142131	160.1000217	193.166073	0.6274945	2.144300493	1.7992435
B7LC74	TY-2482_chromosome	+	4922344	4922751	411.9149324	473.0133662	429.0688149	500.1020442	671.7718998	500.2287438	-0.379067645	1.013622035	0.8142717
B7LC75	TY-2482_chromosome	+	4922719	4923822	331.3699199	326.8479877	292.2410607	444.8732834	552.4595721	530.1083185	-0.674830408	3.010464186	2.5695471
B7LC76	TY-2482_chromosome	-	4923836	4924966	439.7731362	442.6858426	398.5664807	518.7860058	433.9666887	603.446888	-0.277823338	0.75407053	0.5970154
B7LC77	TY-2482_chromosome	-	4924962	4926695	1283.245329	1242.25465	1368.799097	1522.000996	1076.433934	1439.118505	-0.043454351	0.092633627	0.0678395
B7LC78	TY-2482_chromosome	-	4926691	4927686	1207.769905	1103.556949	1259.87132	1305.883727	901.6823521	1311.368019	0.052616927	0.035788152	0.0421266
D3GZ40	TY-2482_chromosome	-	4927689	4928369	471.3708643	410.0519606	383.9753562	274.2442041	283.8896132	341.715065	0.531338366	1.748897698	1.4554143
B7LC80	TY-2482_chromosome	+	4928586	4929947	1060.347974	1023.589082	1197.257597	1900.586612	1593.38107	2112.540177	-0.723154038	3.618005688	3.1103363
B7LC81	TY-2482_chromosome	-	4930185	4930664	153.9459744	162.3209443	167.1129105	134.7711065	136.5545742	108.2471914	0.317969947	1.076460836	0.8689016
B7LC82	TY-2482_chromosome	+	4930784	4932931	1763.461646	1692.523048	1651.791868	1571.520395	1415.958051	1720.58374	0.131358303	0.248035651	0.1841862

B7LC83	TY-2482_chromosome	+	4932962	4933921	1141.165706	1064.921723	1240.788901	1506.003336	1192.94538	1590.293424	-0.272383259	0.869888582	0.6935594
B7LC84	TY-2482_chromosome	+	4934065	4935147	754.3573473	842.2079825	890.1864276	539.1716308	462.1988017	600.9218014	0.649297997	2.719858192	2.314577
B7LC85	TY-2482_chromosome	-	4935382	4935639	327.4437072	377.4242366	322.6679421	336.3053501	517.9887037	413.1867358	-0.316520053	0.790760538	0.6280678
C6V2G3	TY-2482_chromosome	-	4935885	4936259	154.7589259	157.2112199	157.789277	69.47929118	110.4630186	36.50527502	1.058123795	4.662704089	4.067067
B7LC87	TY-2482_chromosome	-	4936247	4936921	61.27103833	57.5638722	67.51263889	37.46087989	41.0121933	30.57089308	0.781204685	2.855527727	2.431963
B7LC88	TY-2482_chromosome	-	4936966	4939245	140.6649727	131.7343059	130.6242344	77.67334967	74.6432001	62.14310561	0.884159179	5.316768098	4.6706811
B7LC90	TY-2482_chromosome	+	4940046	4940969	85.04685167	60.13994712	49.60826063	72.99803365	77.42165421	56.97082442	-0.1111028	0.142963847	0.1043787
B7LC91	TY-2482_chromosome	-	4940972	4943194	293.1835341	286.0529801	279.1832311	280.2824958	262.9253766	332.5070702	-0.003763323	0.044762282	0.0308389
B7LC92	TY-2482_chromosome	-	4943314	4944033	691.9369021	595.8954442	607.275332	1015.350367	1353.288967	1449.447459	-0.932628643	6.157096293	5.4539191
B7LC93	TY-2482_chromosome	-	4944033	4944689	486.12931	464.052331	471.3637951	493.3719353	549.6139853	722.9814228	-0.242119893	0.861972746	0.6870693
B7LC94	TY-2482_chromosome	-	4944831	4945574	1547.227069	1566.254384	1594.486035	1944.761203	1825.56278	1657.926533	-0.228574548	0.506058083	0.3892468
C1HG03	TY-2482_chromosome	-	4945504	4945692	420.9913792	435.1405877	419.845162	304.6033135	344.975514	293.5792084	0.421493399	1.502077792	1.2688335
E2QIH9	TY-2482_chromosome	-	4945623	4945913	89.11058195	80.32302487	79.08585888	58.61041989	42.64280223	61.57744039	0.622130938	2.208468883	1.8581143
B7LC95	TY-2482_chromosome	-	4945981	4946481	8021.925074	8736.909689	8738.924232	8212.65976	10872.52167	8612.223961	-0.118695945	0.119613798	0.087634
B5YSA5	TY-2482_chromosome	-	4946783	4947679	69.53790479	71.86266942	66.56601117	93.8333298	87.29984386	106.3315081	-0.465353791	1.55874987	1.2873277
B7LC97	TY-2482_chromosome	+	4948020	4948532	28329.59681	28365.09572	28971.78098	34403.18687	38197.66811	31367.17273	-0.287713396	0.299342594	0.2239888
B7LC98	TY-2482_chromosome	-	4948587	4950167	227.3759187	221.6516135	215.7966163	239.7202192	264.9088239	202.9795381	-0.114191172	0.180655175	0.1334574
P75786	TY-2482_chromosome	+	4950241	4950507	644.5234979	730.5291069	647.5500098	193.5068543	446.3670931	216.3834129	1.224318979	5.742104659	5.06558
rybA	TY-2482_chromosome	-	4950522	4950610	263.8094065	347.5958238	248.5240041	118.0659113	263.4281032	124.3119689	0.680146514	2.410595446	2.0383794
B7LC99	TY-2482_chromosome	+	4950753	4951217	202.2183402	311.6343726	260.8034181	152.7299442	152.8141425	202.1296326	0.567212255	2.194923506	1.8449951
B7LCA0	TY-2482_chromosome	+	4951217	4952332	263.052638	345.1655522	253.1848902	209.0285635	245.6968997	292.9428837	0.162864718	0.452470004	0.3451839
B7LCA1	TY-2482_chromosome	-	4952397	4953314	608.7342281	640.7147272	565.6080987	1066.625124	1287.704265	1566.366414	-1.078075463	7.28988874	6.5187226
B7LCA2	TY-2482_chromosome	+	4953533	4955122	1799.247586	1805.927197	1872.472995	2559.978554	2164.906849	2730.967817	-0.429367613	0.825338342	0.6566534
B7LF78	TY-2482_chromosome	+	4955404	4956381	540.6081756	576.6605117	555.8808987	584.985487	515.8749771	736.2113526	-0.112037889	0.277717793	0.2078281
B7LCA4	TY-2482_chromosome	-	4956643	4957905	426.2784833	424.9911745	409.2437834	336.76036	328.4746056	386.5433852	0.275917831	0.706323208	0.5548334
B7LCA5	TY-2482_chromosome	-	4958060	4958872	275.1465107	275.9378145	289.2460315	269.5909802	323.1150607	311.7375095	-0.073895382	0.21497823	0.1588853
B7LCA6	TY-2482_chromosome	+	4959021	4961450	111.5112629	103.4200571	102.2221245	80.98300553	70.94999714	69.87688323	0.498876289	1.962304595	1.6382162
B7LCA8	TY-2482_chromosome	+	4962486	4963145	180.8772224	183.3356049	200.1983375	87.59912281	100.9963303	120.6485064	0.931382064	4.725984478	4.1231626
B7LCA9	TY-2482_chromosome	-	4963239	4963985	892.8373667	937.4586517	926.9667885	817.090371	662.3994803	852.2806742	0.238703544	0.667900614	0.5229699
B7LCB0	TY-2482_chromosome	-	4963988	4965220	1674.395239	1671.826566	1665.73552	1607.885631	1192.922991	1653.439094	0.171069837	0.38462977	0.2919192
B7LCB1	TY-2482_chromosome	+	4965424	4966386	1389.320078	1585.938381	1491.447866	380.9744371	331.1774784	391.9073647	1.991587899	23.16340091	21.796311
B7LCB2	TY-2482_chromosome	+	4966409	4968244	1803.830826	1800.254545	1653.695763	607.0762532	464.9110728	586.6262985	1.639630257	14.26821805	13.15418
B7LCB3	TY-2482_chromosome	+	4968267	4969802	1332.564902	1421.496264	1363.998687	805.7295383	687.8724949	961.2562206	0.758747445	3.388289776	2.906192
B7LCB4	TY-2482_chromosome	+	4969823	4970740	494.9457645	540.5352989	525.5486494	309.286669	270.1852379	349.6367279	0.75145862	3.516570937	3.0206849
B7LCB5	TY-2482_chromosome	+	4970746	4971654	308.6346936	374.946895	343.9700931	210.053943	232.1125882	204.0795166	0.626605325	3.06869733	2.6210061
B7LCB6	TY-2482_chromosome	+	4971835	4974180	99.24941486	138.8001976	96.70944473	86.45447121	79.21862453	53.21845414	0.43813626	1.994957154	1.667259
B7LCB7	TY-2482_chromosome	+	4974191	4975516	130.3013003	130.32906	95.8872512	62.94374325	82.0673107	49.19650756	0.795395676	3.857793958	3.3281382
B7LCB8	TY-2482_chromosome	-	4975569	4976891	273.7000971	270.6631557	271.9870878	734.7447634	739.8426032	810.2711503	-1.466904678	12.5061675	11.457482
B7LCB9	TY-2482_chromosome	+	4977104	4977484	2102.098107	2227.767405	2143.735141	45.73846142	36.37372208	30.62297596	5.771770533	102.866334	99.98514
B7LCC0	TY-2482_chromosome	+	4977598	4978710	260.894839	265.7081291	287.3399984	161.8772286	203.0160997	182.8919466	0.604005124	2.32842322	1.9648645
B7LCC1	TY-2482_chromosome	-	4978713	4979336	411.0779052	508.6606955	454.8561078	790.5127809	840.8852591	874.7818915	-0.896921645	4.691535477	4.0928867
B7LCC2	TY-2482_chromosome	+	4979583	4980782	1518.815018	1535.326932	1554.86021	1359.861669	1318.58632	1682.258345	0.115705448	0.155325346	0.113609
B7LCC3	TY-2482_chromosome	-	4980835	4981590	541.5247702	512.7801445	491.0529858	573.6836524	692.6160892	630.2140381	-0.280963649	0.813840516	0.6475345
B7LCC4	TY-2482_chromosome	-	4981651	4982244	343.3315941	339.7075977	303.4658533	269.8866849	405.0738707	390.4969642	-0.073143797	0.214371653	0.1587116
B7LCC5	TY-2482_chromosome	+	4982529	4983758	177.4317963	121.3857486	179.2167379	165.9172281	174.7032243	198.4174335	-0.043687195	0.358087154	0.2704503
B7LD36	TY-2482_chromosome	-	4983805	4984086	78.53683796	72.8330336	79.27059198	74.62678138	101.1692139	68.78014999	-0.068963318	0.14525871	0.1060196
B7LD37	TY-2482_chromosome	-	4984175	4984987	145.0569045	139.6814125	150.604124	227.3715707	214.766501	200.1643311	-0.562858815	2.382201179	2.0115518
B7LD38	TY-2482_chromosome	-	4984990	4986195	99.67342158	87.83544183	78.92594946	129.5392952	125.6069074	106.8612906	-0.473468609	1.479966353	1.2182132
B7LD39	TY-2482_chromosome	+	4986279	4986812	51.20943465	84.65502123	63.95496453	38.88325291	38.24723152	30.55355291	0.750175943	3.103701286	2.6509117
B7LD40	TY-2482_chromosome	-	4986993	4988675	844.3192779	824.5251001	829.2143485	581.732424	627.0499747	597.3364534	0.476528814	1.742071002	1.4493351
B7LD41	TY-2482_chromosome	+	4988945	4989319	404.5923986	404.3453504	386.7859942	153.5806042	188.5178349	129.3793843	1.313599742	9.933171057	9.0046077
B7LD42	TY-2482_chromosome	-	4989355	4989609	90.26709945	135.2877592	82.03329338	49.36612241	51.01216324	38.50421802	0.967486218	5.355281377	4.7066596
B7LD43	TY-2482_chromosome	+	4989769	4990053	371.6388618	368.6758338	382.9726169	364.177895	438.7040428	407.8387153	-0.081132726	0.222887214	0.1651671
B7LD44	TY-2482_chromosome	+	4990040	4990759	1108.145531	1162.028522	1269.167487	1329.210108	1195.729542	1428.552402	-0.136892081	0.26316686	0.2745976
B7LD45	TY-2482_chromosome	+	4990823	4991722	862.8204823	899.5948708	1041.501116	937.0367773	952.8074784	1002.41655	-0.009560344	0.086419412	0.0632607
B7LD46	TY-2482_chromosome	+	4991813	4992286	489.738379	520.1254753	513.6682377	369.0329753	367.6457281	377.5642953	0.445546264	1.613439992	1.3370115
B7LD47	TY-2482_chromosome	+	4992641	4993750	121.9238264	111.6039182	122.8598422	106.8004926	104.5793495	139.0111611	0.091408603	0.05214278	0.0369402

B7LD48	TY-2482_chromosome	+	4993848	4994978	75.42797795	63.89609313	95.57759654	82.78361793	65.39767553	94.3633535	0.05631469	0.038862599	0.0265085
C8UL80	TY-2482_chromosome	+	4994991	4995941	62.9516526	54.74639147	55.33234962	41.95592509	40.91949201	45.93553877	0.453347902	1.170711948	0.9513302
B7LD50	TY-2482_chromosome	+	4995941	4996783	74.5851659	91.69403692	83.17477945	57.78376301	64.68568894	48.99615313	0.479901555	1.78590148	1.4844907
B7LD51	TY-2482_chromosome	+	4996846	4997331	101.2005056	85.5446024	79.60274863	79.35490641	101.1653209	64.93875794	0.102129924	0.205621686	0.1520119
B7LD52	TY-2482_chromosome	+	4997375	4998499	107.7142949	103.3621617	104.2671299	198.0535277	181.1342752	154.19652	-0.717239785	3.480147156	2.96881189
B7LD53	TY-2482_chromosome	-	4998680	4999408	231.1617875	224.0288433	206.4516373	348.0522631	402.3601	287.2608991	-0.685195679	2.737270011	2.3290757
B7LD54	TY-2482_chromosome	-	4999703	5000368	1204.733095	1185.311755	1247.900814	743.6849435	822.6554144	981.0447129	0.57090069	1.884367286	1.571179
B7LD55	TY-2482_chromosome	-	5000371	5001084	1328.152722	1344.466796	1290.663679	1128.692042	1088.339024	1405.960691	0.155973888	0.272607409	0.2037692
B7LD56	TY-2482_chromosome	-	5001094	5001822	2121.711273	1993.974922	1938.305529	2829.110667	2889.413363	2870.69074	-0.500199802	0.835428592	0.6642105
B7LD57	TY-2482_chromosome	-	5001843	5002568	1238.583018	1110.69529	1081.278139	1129.368004	1275.023905	1194.616104	-0.051457904	0.133165387	0.0972348
B7LD58	TY-2482_chromosome	-	5002789	5003301	995.4333866	920.2486988	963.2646709	702.7789567	913.723351	994.2368688	0.214367618	0.32175072	0.2419399
B7LD59	TY-2482_chromosome	+	5003427	5003747	839.6731621	959.9027626	882.0080755	512.97325	449.487679	526.1104402	0.819285037	4.576784475	3.9904236
B7LD60	TY-2482_chromosome	+	5003747	5004574	1410.257808	1524.901791	1601.877091	859.1119277	686.9605704	912.7508738	0.892518227	4.586908761	3.999813
B7LD61	TY-2482_chromosome	-	5004577	5005587	454.6250121	481.3015335	454.8207134	436.5297047	410.341242	542.9059985	0.018619752	0.000178585	0
B7LD62	TY-2482_chromosome	-	5005689	5007116	640.8918655	613.6495857	654.3461125	969.0664999	988.2614641	1202.10593	-0.67490555	3.716703209	3.1978656
B7LD63	TY-2482_chromosome	-	5007130	5008128	1122.431842	1176.972244	1153.40853	2084.399292	1916.494536	2294.199598	-0.86105633	4.648595686	4.055203
B7LD64	TY-2482_chromosome	-	5008168	5009883	1507.549801	1561.063994	1610.380526	3645.392709	3124.077018	4405.504724	-1.223269373	3.320756989	2.8443963
B7LD65	TY-2482_chromosome	-	5010019	5010984	191.462117	159.0836571	211.5953072	241.6181163	130.811215	222.0564095	-0.032508872	0.126524431	0.0928189
B7LD66	TY-2482_chromosome	-	5010999	5012648	191.3886692	178.8618965	213.4922869	859.5969174	537.6540081	737.9871757	-1.862477596	15.79796115	14.625754
B7LD67	TY-2482_chromosome	-	5012795	5013691	126.1089824	91.31734442	84.06963986	184.5454575	175.6062315	186.7822509	-0.833910936	4.318616984	3.752693
C6V2L9	TY-2482_chromosome	-	5013842	5014126	154.6291556	99.83256075	101.9351528	35.49385766	46.59784957	20.41837198	1.792892202	10.81007785	9.8453374
B7LD68	TY-2482_chromosome	-	5014189	5014881	129.9452075	139.3984791	154.7213228	204.874514	230.3287879	177.9546937	-0.537504306	2.044583042	1.7107531
B7LD69	TY-2482_chromosome	+	5015307	5016962	1106.029688	1110.276085	1106.522431	868.2590836	786.2274967	868.2440962	0.395128971	1.416035103	1.1633999
B7LD70	TY-2482_chromosome	+	5016965	5017954	1881.598084	1805.988919	1815.587223	675.3276833	784.4518491	910.0115151	1.269594827	8.038124255	7.2144692
B7LD71	TY-2482_chromosome	+	5018069	5019181	317.072688	311.9541307	317.562552	401.3035602	342.0790354	431.2762412	-0.296248054	0.902374926	0.7208738
B7LD72	TY-2482_chromosome	+	5019181	5021124	352.8695953	403.3022	351.0825308	470.6954241	516.9336425	501.2489535	-0.459217395	1.435230732	1.1796917
Q1RE42	TY-2482_chromosome	-	5021301	5021582	884.59534	919.6664105	948.1671026	726.5673344	1072.249919	733.1698435	0.128177108	0.254095712	0.1889216
B7LD74	TY-2482_chromosome	+	5021747	5022064	1113.451904	1243.077438	1079.289692	472.7766173	469.5642654	494.6104314	1.223537176	9.898851045	8.9727027
B7LD75	TY-2482_chromosome	+	5022098	5024371	10059.06139	10468.33439	11087.45144	7608.312643	6327.488332	7652.781593	0.556042361	0.803707319	0.6387946
B7LD76	TY-2482_chromosome	-	5025062	5025277	1821.118565	1679.755854	1610.78536	852.6981365	2299.368835	920.4596558	0.350281427	0.617114455	0.4817753
B7LD77	TY-2482_chromosome	-	5025565	5026266	345.6512045	304.6851386	308.8643586	513.2455934	556.9266159	640.3946366	-0.782000055	4.292973016	3.7308847
B7LD78	TY-2482_chromosome	-	5026311	5028029	1693.961771	1525.649264	1583.18183	2811.329455	2656.369695	3215.079787	-0.814191764	1.944665567	1.6233778
B7LD79	TY-2482_chromosome	-	5028033	5029796	879.1901225	1111.287164	996.9313595	1749.503482	1500.562718	1973.077096	-0.836892	3.808279294	3.2818334
B7LD80	TY-2482_chromosome	-	5029922	5030884	3487.362536	2947.872194	3121.502422	5264.869882	5353.819748	5567.620246	-0.72161441	1.408112001	1.1566669
E9VK05	TY-2482_chromosome	+	5031429	5031993	2348.914774	2239.299766	2543.404407	2903.352416	3401.90183	2414.629158	-0.284437665	3.083283208	0.9027285
C8U4H0	TY-2482_chromosome	+	5032058	5034307	3091.671881	2828.819561	2851.452842	3816.131927	3979.661502	3940.273042	-0.402788049	0.617760839	0.4820365
B7LD82	TY-2482_chromosome	+	5034287	5036005	2882.217679	2764.139483	2743.191258	4174.608999	4437.405874	4666.361813	-0.640830233	1.169495855	0.9502718
B7LD83	TY-2482_chromosome	+	5036160	5036771	1446.272732	1399.39532	1546.407943	2681.436145	2687.390496	2534.004268	-0.833334633	2.868291431	2.4427032
B7LD84	TY-2482_chromosome	+	5036785	5038125	1273.469341	1398.014473	1295.293456	2363.69009	2064.838566	2298.336951	-0.793953676	3.722928525	3.2037766
B7LD85	TY-2482_chromosome	+	5038219	5039508	9508.019972	9299.023533	9503.413097	8145.885797	8222.285889	9027.590633	0.179949886	0.163973674	0.1203677
B7LD86	TY-2482_chromosome	+	5039750	5042191	6599.521154	7037.266406	7487.884884	194.5802095	147.2934141	199.7293147	5.291400323	32.54243759	30.993682
A7ZJW5	TY-2482_chromosome	-	5042403	5043305	979.395213	1156.129977	1199.853774	122.3970754	77.15223901	133.7208799	3.32193076	40.89317817	39.136923
Q1RDV9	TY-2482_chromosome	-	5043726	5044508	451.6450154	453.5977434	468.1430476	1038.100475	1229.569819	1014.560169	-1.252493094	9.756087003	8.8368804
B7LD90	TY-2482_chromosome	+	5044663	5045808	80.93462753	67.87369854	70.52379637	96.58411102	110.227391	74.16322497	-0.364913241	0.964198061	0.7721645
B7LD91	TY-2482_chromosome	+	5046021	5047496	45.74247229	35.02024678	43.63456516	99.06057484	65.3964269	77.73507625	-0.942214598	4.044599565	3.5015295
B7LD92	TY-2482_chromosome	-	5047503	5048408	61.23187766	66.66206033	64.02300198	44.46202607	50.06935347	49.94357353	0.409717797	1.38776114	0.9228499
B7LD93	TY-2482_chromosome	+	5048508	5049095	42.2936822	62.63672555	54.18831014	36.72845473	30.06401269	15.16121596	0.788349835	2.984304442	2.5458511
B7LD94	TY-2482_chromosome	-	5049183	5049920	1484.46508	1453.021829	1463.705484	863.1440501	1020.166861	1152.1205	0.586759267	2.031845444	1.6990405
B7LD95	TY-2482_chromosome	-	5050115	5052394	40568.07899	37968.05497	38914.85681	112806.0324	82149.28032	115754.0677	-1.390399918	2.875136865	2.4487873
B7LD96	TY-2482_chromosome	-	5052452	5053306	7858.985052	8350.282552	7733.211141	5018.937626	4937.938762	4735.014684	0.67326309	1.187669075	0.9640086
B7LD97	TY-2482_chromosome	-	5053714	5055471	1879.251928	1898.659131	1982.092295	2025.136727	2590.829336	3261.079001	-0.561180015	1.045299733	0.8412559
B7LD98	TY-2482_chromosome	+	5055601	5056290	488.0727066	586.6027592	584.4466312	437.4926252	439.5883169	373.9294326	0.363109688	1.334431766	1.0925578
B7LD99	TY-2482_chromosome	+	5056492	5057577	3201.464122	3178.866379	3282.716025	5521.135425	5208.190606	5454.535004	-0.739614665	1.365817347	1.1192681
B7LDA0	TY-2482_chromosome	+	5057651	5058931	708.0379411	833.379003	738.695073	1811.924093	1553.352102	1987.603598	-1.260604727	8.198359854	7.3592157
B5YT43	TY-2482_chromosome	+	5059079	5059864	50.76907012	51.82739733	55.55290913	51.26117791	48.20613492	50.01365139	0.086977946	0.130216117	0.0950494
B7LDA2	TY-2482_chromosome	+	5060040	5060720	1207.087444	1126.112368	1134.861602	1911.720451	1926.583076	1857.733349	-0.710739591	3.41465744	2.9288516
B7LDA3	TY-2482_chromosome	+	5060834	5062504	94743.76036	89914.41959	91574.53097	124200.1412	104510.2313	122166.5813	-0.340370639	0.376791436	0.286234

A1A9I9	TY-2482_chromosome	-	5062679	5062984	1555.596923	1555.225752	1328.730373	1829.470074	2222.464114	1707.990241	-0.412720542	1.141935561	0.9256545
B7LDA5	TY-2482_chromosome	+	5063158	5065419	142.6699415	173.747934	147.7536476	118.8784329	122.8833821	109.3778819	0.337162198	1.335382293	1.0933422
B7LDA6	TY-2482_chromosome	+	5065459	5067204	1203.343407	1108.274509	1152.735977	2219.695738	1933.751985	2525.631216	-0.910333934	5.24849217	4.6053439
B7LE13	TY-2482_chromosome	+	5067204	5068187	1000.688104	937.9894568	930.8245002	1073.6324	997.3343819	1246.876284	-0.179738175	0.509939732	0.3924229
B7LE14	TY-2482_chromosome	+	5068227	5069456	364.9365322	375.7418627	348.4637634	372.2103634	356.6707684	439.0974595	-0.092373211	0.20429262	0.1510057
A1A9J4	TY-2482_chromosome	-	5069519	5069785	766.3362781	870.2080494	872.2689646	640.7288875	742.6537781	686.7899775	0.275688272	0.806320034	0.641129
E7H9E7	TY-2482_chromosome	+	5069690	5070530	1600.194498	1782.171243	1803.201312	1506.272599	1588.921519	1804.758642	0.101416802	0.161263922	0.1182888
B7LE17	TY-2482_chromosome	+	5070590	5071480	1802.317652	1634.189535	1856.04562	109.5783588	104.6015001	123.4595388	4.02166562	70.25645636	67.995051
B7LE18	TY-2482_chromosome	-	5071463	5072239	391.1583722	343.9376005	404.8803727	97.05253914	96.42416016	111.6206097	1.96524668	18.99439847	17.736453
B7LE20	TY-2482_chromosome	+	5072375	5073157	703.7557471	654.9620584	694.5809234	625.8219688	641.5957435	615.7851447	0.141562489	0.278785537	0.2082716
B7LE21	TY-2482_chromosome	+	5073157	5074476	752.1934239	808.6831978	820.0811782	1278.115246	1095.619807	1270.784359	-0.622204088	2.685248531	2.282861
B5YT57	TY-2482_chromosome	+	5074433	5075161	772.6115224	701.3398107	726.8627289	961.284157	987.3882154	1073.388494	-0.422212486	1.783294434	1.4824547
B7LE23	TY-2482_chromosome	+	5075164	5079621	6248.209094	6068.928888	6128.261798	8381.181502	7003.63975	9141.902496	-0.393325081	0.545750618	0.4211923
B7LE24	TY-2482_chromosome	+	5079885	5081729	2497.640026	2607.053043	2830.607702	2149.461716	1974.748158	2266.65389	0.331405886	0.434177848	0.3312553
B7LE25	TY-2482_chromosome	+	5081913	5082458	794.1508727	770.8874047	853.8277283	2726.995869	2367.000723	2351.173009	-1.624257694	14.07726582	12.968149
B7LE26	TY-2482_chromosome	+	5082488	5083132	1082.796583	1011.034961	1234.945986	3523.61381	3069.565125	3001.111113	-1.508720351	5.963621327	5.2732254
B7LE511	TY-2482_chromosome	-	5083380	5084357	498.6822711	495.4181702	579.3020806	593.6146152	469.4185504	741.3876306	-0.130907286	0.428806756	0.3272089
B7LE28	TY-2482_chromosome	-	5084639	5085826	5794.118291	6287.325232	6286.80771	11320.62445	9911.271507	12573.03268	-0.873299417	1.615120776	1.3383325
E7H9D3	TY-2482_chromosome	+	5085813	5086011	438.8881734	508.5577736	417.617126	531.7548768	536.8867284	623.3415328	-0.340490937	0.882794491	0.7048915
B7LE29	TY-2482_chromosome	-	5086014	5087099	5930.243277	6071.633794	6630.252279	4069.048634	4212.65011	3907.506993	0.621104607	0.993953795	0.7974715
B7LE30	TY-2482_chromosome	-	5087704	5089101	2986.420671	2473.631656	2375.894107	4134.55078	4279.947069	4726.81051	-0.709107694	1.397360374	1.1465939
B7LE31	TY-2482_chromosome	-	5089273	5090472	859.4881179	658.8971624	801.6006933	1137.21656	1131.129442	1399.438207	-0.563769283	2.968963829	2.5315538
B7LE32	TY-2482_chromosome	+	5090738	5093347	5055.186152	5766.77726	5754.041921	8551.84272	6919.87783	10286.25708	-0.621557927	0.993338983	0.7971395
D8ESU4	TY-2482_chromosome	-	5093334	5093564	249.0026525	279.3847647	222.8356349	313.9182587	287.5144641	330.0797942	-0.360136796	0.924585414	0.7388727
B7LE33	TY-2482_chromosome	-	5093560	5094324	55.43838117	49.49565804	50.07554539	56.71091597	39.91250655	56.38201887	0.027930536	0.013948399	0.0089993
B7LE35	TY-2482_chromosome	-	5095126	5096268	26.74091818	30.88679202	33.1766353	40.95668086	29.93304414	38.09324068	-0.27713698	0.44978029	0.3434677
B7LE36	TY-2482_chromosome	-	5096268	5097224	24.65106378	19.57294077	28.64984435	37.31612595	21.71478526	27.73256008	-0.220848421	0.33240327	0.2497444
B7LE40	TY-2482_chromosome	+	5099499	5102096	71.79259566	72.09928287	69.23807748	66.42269266	42.68143132	39.88402663	0.432779095	1.448740465	1.1908877
B7LE41	TY-2482_chromosome	+	5102090	5103157	68.11739894	75.71344831	53.0273476	68.11017216	60.09487762	40.0585481	0.08320328	0.380534008	0.2886853
B7LE44	TY-2482_chromosome	+	5104230	5104937	74.76854991	58.88948902	87.56075812	43.43344625	51.09308258	28.20950621	0.889348603	3.132213592	2.6764447
B7LE45	TY-2482_chromosome	+	5105051	5106058	461.4796158	418.1680435	451.6214169	852.0195233	777.1735766	710.6943985	-0.817388118	4.17861913	3.6237606
B7LE46	TY-2482_chromosome	+	5106235	5106774	853.6908117	1047.93332	1118.740935	980.2106349	1315.19741	923.9554859	-0.104881639	0.173738277	0.1281288
B7LE47	TY-2482_chromosome	-	5106777	5107883	384.3375692	404.0666729	382.190769	706.6334462	695.2659977	699.9362274	-0.862328717	4.532739031	3.9489404
B7LE48	TY-2482_chromosome	+	5108127	5110232	873.5188104	847.5907493	824.5229189	1680.346096	1516.931524	2185.962239	-1.038659924	6.276293985	5.5663384
B7LE49	TY-2482_chromosome	+	5110246	5112125	1886.675633	2021.850062	2028.287022	2922.483062	2346.883149	3264.968139	-0.514303867	0.866656894	0.6906132
B7LE50	TY-2482_chromosome	+	5112283	5113533	681.1831762	680.6344934	757.4724071	709.5146161	631.5482855	604.0751874	0.118091911	0.274598561	0.205258
B7LE51	TY-2482_chromosome	+	5113541	5115178	1077.501407	1179.356076	1156.090968	1296.415862	1165.707111	1340.480007	-0.16595978	0.355850827	0.268729
C8ULH5	TY-2482_chromosome	+	5115178	5115738	462.7067252	545.2109731	514.998909	469.591566	458.6564052	451.3316087	0.106265449	0.317497764	0.2383926
C6UNL9	TY-2482_chromosome	+	5115981	5116175	497.4641266	491.2362684	394.3902244	426.560664	1213.82097	313.0487913	-0.549385093	0.889623797	0.7107163
B7LE55	TY-2482_chromosome	-	5116824	5118581	1280.863944	1431.836188	1446.013815	2201.920894	2044.811037	2477.036397	-0.685146494	2.523460368	2.1364206
B7LE56	TY-2482_chromosome	+	5118767	5119216	499.3732251	581.2732399	543.3578046	348.4609082	364.1644364	198.2069854	0.730443377	3.43061808	2.9432913
B7LE57	TY-2482_chromosome	-	5119298	5120335	96030.2383	76812.38335	85434.34027	94660.24454	92188.14861	115772.4	-0.15148842	0.225694035	0.1667767
D3HOI0	TY-2482_chromosome	+	5120490	5120705	202.0780275	183.1761715	171.4272604	190.2160357	213.8838864	213.0644296	-0.131173911	0.331384609	0.249071
B7LE58	TY-2482_chromosome	-	5120695	5121201	657.6788707	516.4609791	526.6344698	421.2514235	555.2494193	457.9714577	0.29203471	0.623012129	0.4862411
B7LE59	TY-2482_chromosome	+	5121420	5122046	296.7851812	321.6120953	310.9548687	190.4582311	212.1288184	160.8831608	0.683999087	3.409401267	2.9246968
B7LE60	TY-2482_chromosome	-	5122015	5124165	519.0966496	474.5514685	482.54701	348.5196691	397.7395718	367.111119	0.429346977	1.339855111	1.09715
C8U5C5	TY-2482_chromosome	-	5124187	5124630	123.6196299	92.04853162	111.5955488	110.3733678	106.4624375	105.3217135	0.077391794	0.048430067	0.0337199
B7LE62	TY-2482_chromosome	+	5124753	5126804	1452.155349	1578.789503	1597.845424	1013.902212	969.1502814	1115.448088	0.586860464	2.323306632	1.9601873
B7LE63	TY-2482_chromosome	-	5126842	5127297	1520.983991	1627.760637	1634.126858	2420.043421	2649.238708	2100.0724	-0.610422862	1.598278726	1.3231072
B7LE64	TY-2482_chromosome	-	5127396	5128055	106.3257626	84.12141657	103.0905894	39.26122702	45.55048318	39.58107228	1.297199589	7.636798843	6.844331
B7LE65	TY-2482_chromosome	+	5128228	5128638	519.115555	444.3328023	499.8382182	552.0478778	617.9405625	630.0704644	-0.238862133	0.849107412	0.6760505
Q1RDP7	TY-2482_chromosome	+	5128610	5129002	941.6605623	870.9017126	828.3960557	668.8093668	870.1080541	760.4725902	0.221480065	0.506334171	0.3893159
B7LE67	TY-2482_chromosome	-	5129064	5130164	651.3059128	730.3147752	611.7847946	837.8520581	872.7362179	893.2497099	-0.423267548	1.339656586	1.0971178
B7LE68	TY-2482_chromosome	+	5130133	5130621	266.8285514	271.1894294	315.2107369	292.2319422	329.5331607	249.0370631	-0.023294408	0.047350667	0.032739
B7LE69	TY-2482_chromosome	-	5130624	5130950	276.6741549	278.2813967	277.2693088	234.239283	316.8922096	200.493979	0.129103601	0.303963858	0.2274767
B7LE70	TY-2482_chromosome	-	5131044	5131700	2514.36886	2208.415098	2324.627428	2366.851941	3604.864017	3075.879051	-0.293949186	0.504964833	0.3883202
serT	TY-2482_chromosome	-	5131907	5131994	32.35827977	28.37697121	23.44403181	10.66238394	26.65309526	10.92807396	0.795796292	1.756499027	1.4611412

B7LEU9	TY-2482_chromosome	+	5132421	5133536	24.98985545	40.20829265	41.95743582	31.20025439	25.46010723	21.36236661	0.373182094	0.87730876	0.7002649
B7LEV1	TY-2482_chromosome	+	5133536	5135326	35.11200373	33.97720927	37.03539116	51.78621762	29.88240297	40.8184389	-0.229598364	0.326207278	0.2453862
B7LEV5	TY-2482_chromosome	+	5137031	5137885	23.0731731	27.64877928	24.37281762	37.19668852	28.16684291	25.3015031	-0.361429783	0.447130786	0.3417895
B7LEV6	TY-2482_chromosome	+	5138022	5139563	51.46726241	65.29940817	50.62306204	95.24980079	76.32002128	108.83204	-0.79654692	2.972048603	2.534378
B7LEV7	TY-2482_chromosome	+	5139578	5140711	50.9152572	51.14979622	44.00518026	70.52030368	80.96814128	99.56507647	-0.753985989	3.061905488	2.5150138
B7LEV8	TY-2482_chromosome	+	5140899	5142194	94.29153907	99.4639736	78.21254558	105.1360248	87.26456346	112.9086479	-0.206219713	0.38511492	0.2922068
B7LEV9	TY-2482_chromosome	-	5142315	5144492	7585.452401	6811.189556	6983.216196	5554.737324	4881.455579	5294.034015	0.450401165	0.611678016	0.4773772
B7LEW0	TY-2482_chromosome	-	5144515	5144958	1564.606057	1378.989737	1453.784133	1424.702543	1041.853945	1428.507145	0.195930464	0.389582133	0.2952537
B7LEW1	TY-2482_chromosome	-	5144949	5146085	2974.150154	2787.919819	3095.956987	3410.271471	3350.769036	3741.44429	-0.203946382	0.308542634	0.2312604
B7LEW2	TY-2482_chromosome	-	5146134	5148227	1725.292394	1682.182508	1655.124079	1783.961119	1964.774469	2296.699311	-0.214788549	0.520773283	0.4008232
B7LEW3	TY-2482_chromosome	-	5148230	5148973	517.5840968	436.9393341	527.0306625	508.1590826	479.5186237	602.2061553	-0.022718117	0.199563582	0.1472358
B7LEW4	TY-2482_chromosome	-	5148973	5149614	817.3534794	786.3393602	863.0434307	820.1245521	843.605996	881.3825526	-0.011585868	0.087246552	0.0636258
B7LF95	TY-2482_chromosome	-	5149724	5150026	10990.95415	10723.66546	11467.04026	11702.04227	12661.56837	12294.43019	-0.119504727	0.145229136	0.1060196
B7LF96	TY-2482_chromosome	-	5150471	5150680	61.26523843	79.72116772	49.68130088	8.821448211	9.183544742	0.322508835	3.093941702	20.05541907	18.768985
B7LF99	TY-2482_chromosome	+	5150966	5151175	3059.359935	3573.222672	2667.579644	391.3599531	773.9383714	387.4536381	2.512591022	22.23518943	20.900126
D6I8Q5	TY-2482_chromosome	+	5151117	5151374	2192.687828	2516.949065	1764.921709	350.5942434	723.9060039	353.2606006	2.104240179	15.661375	14.496184
C8TPT1	TY-2482_chromosome	+	5151352	5151579	326.8216519	366.6225441	272.2298443	180.12807533	170.6078613	69.20132613	1.516862294	8.3922584	7.543817
B7LFA1	TY-2482_chromosome	-	5151797	5152867	92.15333665	89.5335261	70.22908793	47.42963794	30.88442959	22.93412476	1.179146263	6.339205089	5.6243421
B7LFA2	TY-2482_chromosome	-	5152942	5155683	167.6252262	164.4542817	140.9855957	86.22311631	52.67008337	51.72616592	1.205796218	8.264912408	7.4218081
B7LFA3	TY-2482_chromosome	+	5155766	5156791	126.9369728	155.8597015	137.2579708	57.8244434	58.25611777	52.78103519	1.253721159	9.743961187	8.8296903
B7LFA4	TY-2482_chromosome	-	5156770	5157459	153.9756453	157.3567454	164.4702223	158.4035261	136.4392136	153.883035	0.084221603	0.1718416	0.1269588
B7LFA5	TY-2482_chromosome	+	5157589	5158758	29.47458622	53.92907968	42.29405348	43.28386517	28.12475783	27.93283602	0.168288732	0.542936782	0.4190119
B7LFA6	TY-2482_chromosome	+	5158761	5161304	131.7249180	121.4193215	118.033003	109.423736	67.15804906	104.9983547	0.390570743	1.173838063	0.9538251
B7LFA7	TY-2482_chromosome	+	5161304	5161900	115.1353034	120.7143611	112.1297615	54.16979461	65.54656718	68.24137725	0.902681082	4.817921716	4.2085689
B7LFA8	TY-2482_chromosome	-	5161999	5162301	406.1123392	361.835659	417.3992614	132.1735522	105.4626977	131.4228475	1.718048899	15.01854581	13.882947
B7LFA9	TY-2482_chromosome	-	5162304	5163221	1311.709184	1234.615322	1350.929342	423.0379557	349.3524203	440.5176201	1.712020505	16.62318768	15.42624
B7LFB0	TY-2482_chromosome	+	5163554	5164738	47.91580378	54.94738277	36.51589451	22.94568316	32.95750087	12.4838313	0.887425163	3.091084085	2.6404485
B7LFB1	TY-2482_chromosome	+	5165030	5166268	1593.481697	1705.325274	1818.454855	8421.044661	6116.336616	6979.436873	-2.101581144	7.120738891	6.3590203
B7LFB2	TY-2482_chromosome	-	5166312	5166536	652.804759	649.5354973	690.6925431	840.9961556	950.1143046	960.2967988	-0.431050508	1.810473401	1.5058123
B7LFB3	TY-2482_chromosome	-	5166560	5167150	1696.682664	1757.281381	1996.156611	2259.503475	2405.235207	2776.955786	-0.394312426	0.87189081	0.6952759
B7MPT9	TY-2482_chromosome	-	5167135	5168466	832.2348112	855.4983219	916.5415483	945.0937714	905.4849082	897.3307514	-0.075638112	0.163786404	0.1202857
C8TPU6	TY-2482_chromosome	-	5168498	5168779	96.39207177	100.4833407	101.705638	34.83863483	38.28437522	27.95158944	1.532579507	10.89461574	9.9254662
C8TPU7	TY-2482_chromosome	-	5168828	5169076	186.3182957	163.2362723	175.5982514	76.51802799	71.93678761	50.51412664	1.371490025	10.28409899	9.3440846
C8TPU8	TY-2482_chromosome	-	5169067	5169444	239.1948565	272.0752117	241.5182504	106.5706755	95.52677794	93.55392696	1.289553435	10.44284823	9.4919235
C8TPU9	TY-2482_chromosome	-	5169444	5169794	166.6748272	177.5439345	174.9661282	80.39263946	59.15838332	32.42302515	1.467888536	10.4435982	9.4919235
C8U7P4	TY-2482_chromosome	-	5169833	5170042	95.82874759	64.78830405	105.3980613	46.91960396	37.25538266	38.30073771	1.201463732	5.383451984	4.7318541
C6UPU4	TY-2482_chromosome	-	5170005	5170628	185.3942964	202.7930848	182.7533379	93.44402805	71.78076423	93.24644601	1.109623539	7.888436063	7.0766631
C8U7P2	TY-2482_chromosome	-	5170628	5171056	145.8288547	158.6448697	129.7742318	59.91732339	41.71237293	65.43340486	1.340182775	9.856271638	8.9332908
C8U7P1	TY-2482_chromosome	-	5171115	5171750	234.9749373	201.8869519	212.5135159	106.7828925	124.7126317	120.9904707	0.926345374	5.008359813	4.3844439
E1J6T9	TY-2482_chromosome	+	5171752	5172138	511.0547979	505.8710034	331.3582501	80.54176186	216.2363635	74.57025858	1.790774061	8.809345579	7.9416906
C8TPV1	TY-2482_chromosome	-	5172109	5173002	261.8079292	237.787634	254.1920417	81.03424876	64.5359794	72.39585168	1.792409765	17.13122241	15.920583
B7MXC9	TY-2482_chromosome	-	5173008	5173238	105.5590576	107.3300407	84.11687054	38.84707887	14.34311985	30.15296836	1.739919737	10.81060443	9.8453374
C8TPV5	TY-2482_chromosome	-	5173201	5173605	127.9571429	133.0145198	105.9346173	53.72544288	31.70370987	43.42710051	1.425962726	10.6266591	9.1508615
C8TPV6	TY-2482_chromosome	-	5173605	5174135	168.9552946	182.2893133	165.590416	58.37175297	40.88022314	38.4951358	1.818273972	17.44497529	16.228109
C8U7N0	TY-2482_chromosome	-	5174433	5174873	248.9109515	277.5386138	258.7552809	121.6024411	99.22725953	58.70128257	1.366618995	9.944378888	9.0150075
C8U7M9	TY-2482_chromosome	-	5174953	5175771	921.9687685	960.9658935	1011.594018	394.5487158	272.9847552	175.8967751	1.665878092	12.17349056	11.140485
C8U7M8	TY-2482_chromosome	-	5175838	5176182	328.2565166	337.3599315	330.7384342	106.5783739	100.9586333	60.17384917	1.471242592	9.278367463	8.3883992
C8U7M7	TY-2482_chromosome	-	5176260	5176844	245.7487439	322.874303	283.2118885	111.4100998	69.99874946	52.02876889	1.69897826	13.84053544	12.742291
C8U7M6	TY-2482_chromosome	-	5176847	5177533	147.0093416	189.5712817	183.6866457	62.63831193	53.65980406	51.50144127	1.568660746	13.62680692	12.535663
C8U7M5	TY-2482_chromosome	-	5177533	5178480	193.3917096	265.6763075	217.0977998	81.64995247	66.35866756	74.99900267	1.506724048	13.10839751	12.029977
C8U7M4	TY-2482_chromosome	-	5178500	5178778	92.07984861	103.5795862	66.76540267	27.86555047	16.23763557	27.41872991	1.773938054	11.27077637	10.281586
C8U7M3	TY-2482_chromosome	-	5178802	5179080	77.01953529	88.59056474	65.65734108	27.06007193	18.99899719	28.72320847	1.561323845	9.320033582	8.4256109
C8U7M2	TY-2482_chromosome	-	5179095	5179304	46.19175568	49.37448182	57.02530187	22.4441243	16.28563959	23.51007083	1.313000313	5.826674875	5.1445955
B6ZXE1	TY-2482_chromosome	-	5180308	5181078	249.2532852	265.5902969	157.6619659	54.05541724	88.48923263	55.61160232	1.669179128	11.99229722	10.969439
Q32F72	TY-2482_chromosome	-	5181710	5182660	2826.116377	2625.539126	2822.544617	0	0	2.36E-09	15.17859296	171.1069332	167.44759
Q32F73	TY-2482_chromosome	-	5182660	5184126	5519.840106	5296.193541	5291.711301	0	0	2.36E-09	16.12231509	80.69588197	78.15048
Q32F74	TY-2482_chromosome	-	5184224	5184934	3635.309581	3551.976085	3312.212964	866.9382163	1194.060701	1189.072842	1.731871637	5.779873555	5.1018934

E7DYT8	TY-2482_chromosome	+	5185030	5185230	130.0459767	129.3285065	142.0846513	18.23597853	19.08976586	22.21391702	2.79063609	29.44786006	27.961701
C8U7L4	TY-2482_chromosome	+	5185264	5185554	225.6835259	256.9729891	246.2806396	28.2456054	27.28602993	27.66032648	3.101725461	42.78988538	41.028167
C8U7L3	TY-2482_chromosome	+	5185765	5186139	136.7561022	151.3604353	139.8952166	26.79601078	23.57460018	35.13670597	2.330543323	23.34077285	21.971462
C8U7L2	TY-2482_chromosome	+	5186136	5187653	382.1658816	351.2500967	390.2883767	95.65654704	82.67612254	133.5178293	1.929573089	16.27735234	15.093678
C8U7L1	TY-2482_chromosome	+	5188646	5188614	120.8913686	146.244502	147.3888684	52.95012924	32.61250383	47.26035194	1.600071964	12.65862529	11.604585
C8U7L0	TY-2482_chromosome	+	5188617	5189063	51.58597036	49.43933609	52.85500223	28.49800714	18.07619444	27.47624829	1.059440665	4.254926453	3.6962959
C8U7K9	TY-2482_chromosome	+	5189074	5189634	62.99764644	56.7637608	49.88536615	31.50999152	17.17336323	19.96322772	1.227061199	5.783550647	5.1051169
B3BQ93	TY-2482_chromosome	+	5190956	5191995	107.3791641	140.5204457	133.4822397	24.68077592	31.90519783	28.94111957	2.136330343	18.87595076	17.619726
C6UP08	TY-2482_chromosome	+	5192010	5192276	123.933163	153.2886251	135.9558934	33.16076903	50.21069835	33.18116872	1.78119208	14.92182462	13.788818
B7MRX3	TY-2482_chromosome	+	5192732	5194699	192.0224743	235.4220975	197.2457757	70.00545053	83.77002334	78.92266571	1.383884814	11.281393	10.290433
C6V1Q5	TY-2482_chromosome	+	5194885	5195301	58.029543	78.59121448	72.71739451	24.93493189	24.55869711	25.01305831	1.441421668	7.9856579	7.1657903
B6ZXG1	TY-2482_chromosome	+	5195382	5196132	54.28237544	80.1962488	63.96411235	20.93220081	17.19740327	27.25829962	1.546645463	8.136546896	7.3026274
D8ACV6	TY-2482_chromosome	+	5197139	5197753	64.12226087	87.77587883	63.77173406	7.878200732	7.259768691	7.899597269	3.116983307	22.91450122	21.560507
C8U7J7	TY-2482_chromosome	+	5197770	5198318	77.80228348	86.24569589	64.9948968	43.30777684	51.97889275	34.60796268	0.730313115	3.121134164	2.6659085
C8UMI7	TY-2482_chromosome	+	5198340	5198555	134.9218283	144.0398919	71.01339193	43.08059064	131.628132	39.06236181	0.588943411	1.4435879	1.1866756
C8UMI8	TY-2482_chromosome	+	5198614	5199417	24.2301198	40.09077714	41.29453047	39.88869048	30.91782524	24.11059978	0.048671989	0.189864354	0.1401131
C8UMI9	TY-2482_chromosome	+	5199401	5201104	101.4866527	125.1575631	114.8866452	128.6736125	121.89929259	138.0057662	-0.21517518	0.449532942	0.3434634
B5YYP6	TY-2482_chromosome	+	5201107	5203248	265.4496887	265.5145143	270.0396057	236.6317252	201.9703985	215.8152683	0.278489834	0.849189403	0.6760505
C8UMJ1	TY-2482_chromosome	+	5203409	5204413	212.3311895	196.9662179	237.273429	184.8813397	117.1998339	187.778956	0.440257258	1.166731832	0.9481711
C8U7J2	TY-2482_chromosome	+	5204440	5205651	286.4291468	271.1092899	289.8869786	297.8452675	239.2694865	252.7282999	0.091572246	0.214020416	0.1584685
C8UMJ3	TY-2482_chromosome	+	5205710	5206096	76.56428891	62.42585099	57.11484941	56.4499392	49.05824958	64.20277043	0.233895665	0.434234814	0.3312553
C8UMJ4	TY-2482_chromosome	+	5206149	5206607	32.61078493	36.84204533	49.35184841	42.57763264	33.53408	57.3173917	-0.083559819	0.242155826	0.1796661
B5YYN8	TY-2482_chromosome	+	5206594	5207154	50.19817285	42.24930968	47.53642424	34.77719283	31.79971178	38.01290894	0.466610026	1.056338949	0.8512282
C8U7I8	TY-2482_chromosome	+	5207157	5207804	77.76076905	75.15334651	79.25648082	32.28435265	36.30832476	62.27269283	0.93491669	0.215803136	0.2542046
C8U7I7	TY-2482_chromosome	+	5207804	5209993	131.9932957	193.4564364	161.7327879	44.55014191	28.91679913	66.22358371	1.781588337	12.20152573	11.165429
C6UNY7	TY-2482_chromosome	+	5210763	5212451	158.6128081	161.6241706	135.7031471	114.8806867	100.0078122	132.5500035	0.378935764	1.255000138	1.0216775
C8UMK2	TY-2482_chromosome	+	5212451	5213716	73.9337484	70.59657331	86.76452364	60.2796093	40.74128554	89.85728576	0.380429728	0.562910024	0.435809
C6UNY5	TY-2482_chromosome	+	5214018	5214632	52.23444627	63.14513641	51.99421293	31.86696478	27.30480365	20.136829	0.963576192	0.214020416	0.37208882
C8UMK5	TY-2482_chromosome	+	5214726	5215457	102.9635542	125.4485693	121.5733989	57.67922299	71.09472058	50.34191696	0.923716559	5.151494126	4.517515
C6UNY3	TY-2482_chromosome	+	5215890	5216288	258.5210502	196.4724043	163.1577366	63.87698899	225.4419448	70.64465247	0.806942135	1.739976135	1.4476135
C8UML0	TY-2482_chromosome	+	5217762	5219024	97.02292266	126.7895605	99.48822019	67.78714906	66.36146972	67.31865547	0.426416261	1.885974189	1.5725901
C8UML1	TY-2482_chromosome	+	5219097	5227475	689.3458057	820.3056653	706.2987961	772.7868482	678.7662893	994.0188743	-0.151441946	0.312181145	0.2341023
C8TNB3	TY-2482_chromosome	+	5227816	5228184	128.6659313	109.6929918	134.8718524	68.49291717	89.22352481	93.16748045	0.670547506	2.295821041	1.935305
B7LFB4	TY-2482_chromosome	-	5228391	5228618	29.42005525	48.03770662	52.62760155	48.18815884	77.56288034	47.74027777	-0.436418216	0.865717977	0.6899596
B7LFB6	TY-2482_chromosome	-	5228813	5230138	34.20077797	42.95990927	39.64215462	60.1506719	44.51306719	47.52062049	-0.454421809	0.696530789	0.7240168
B7LFC3	TY-2482_chromosome	+	5234541	5235176	283.9925463	314.1586922	328.2891275	275.0318376	307.6468767	275.0875833	0.110153612	0.228989876	0.1696364
B7LFC4	TY-2482_chromosome	-	5235222	5239181	3596.34471	3395.763742	3755.5311	801.4978372	589.5685159	779.9743188	2.324903414	12.32503014	11.281635
B7LFC5	TY-2482_chromosome	+	5239604	5241109	690.3009518	669.8412732	648.8930867	156.0083489	140.9227512	222.9312924	2.005055336	17.1017194	15.892623
B7LFC6	TY-2482_chromosome	+	5241645	5242481	77.8124529	81.68533554	67.73169396	18.71689693	22.74411243	27.34088038	1.730340846	10.75930202	9.7963128
B7LFC7	TY-2482_chromosome	+	5242542	5243666	405.3782738	411.6224547	360.8946694	80.5557982	50.80508987	72.24721113	2.482794142	28.28865426	26.823085
B7LFC8	TY-2482_chromosome	+	5243675	5244943	562.2504453	673.1179461	539.7971774	98.94616603	75.46274617	76.52556454	2.71497587	34.15653787	32.565378
E6ANA4	TY-2482_chromosome	-	5244867	5245210	178.0315743	182.3135302	157.5383149	23.67612787	29.24380993	14.97795661	2.85195982	34.27423267	32.677545
B7LFD0	TY-2482_chromosome	+	5245430	5246350	131.5184126	134.3206154	145.3844548	85.15911345	70.96941689	58.30796353	0.896852232	5.175338163	4.5400675
B7LFD1	TY-2482_chromosome	-	5246406	5246816	22.47263552	26.79379527	16.78214095	40.05085813	41.88521374	36.99014671	-0.946474007	2.683171706	2.2810344
B7LFD2	TY-2482_chromosome	-	5246821	5248143	25.40966111	21.72887181	27.8877627	92.80636794	76.37197039	85.52668696	-1.722945458	12.04708865	11.021211
B7LFD3	TY-2482_chromosome	-	5248139	5250154	32.09396912	33.51971175	33.68247662	133.3224368	131.0370647	130.295955	-1.995243577	18.38388586	17.139514
B7LFD4	TY-2482_chromosome	-	5250166	5252586	79.1916984	82.47923615	83.88500941	180.4935021	116.3293159	151.2929422	-0.901832828	4.316619853	3.7517453
B5YU69	TY-2482_chromosome	+	5253101	5254528	72.34859155	91.32891047	77.81376135	68.0184968	54.55753398	51.56928559	0.374635208	1.386762672	1.1373502
B7LA99	TY-2482_chromosome	-	5254575	5255438	64.89573977	81.03463939	67.87921972	99.11626688	73.65942204	64.8875944	-0.272873031	0.322857431	0.242838
B7LFE0	TY-2482_chromosome	+	5255438	5255743	24.37750975	7.872422275	17.10220725	38.97608352	31.80110463	33.00380544	-0.923428685	3.132949702	2.676909
C8UMN7	TY-2482_chromosome	+	5257678	5258892	190.6160461	215.321326	185.3417149	55.29189565	61.80109884	95.25694171	1.516605663	10.69484961	9.7327333
B7UP05	TY-2482_chromosome	-	5259068	5260594	240.7910362	247.03824	232.2868901	389.3926178	294.9123964	128.8272455	-0.33246444	0.278370737	0.2080806
E6B380	TY-2482_chromosome	-	5260569	5260865	23.04698187	21.71571448	30.03431237	46.19104409	53.85797598	23.14181389	-0.734112182	1.666228824	1.3813084
B1LKM5	TY-2482_chromosome	+	5260954	5262786	752.8563362	920.7765341	816.6370514	1208.9683368	1135.087217	226.5576541	-0.262180061	0.04717375	0.0326604
C8UMP3	TY-2482_chromosome	+	5264843	5267200	515.8109525	586.8563956	587.0445074	488.7193694	425.8325845	482.7599033	0.256267521	0.756077641	0.5987492
B7MQ88	TY-2482_chromosome	-	5267224	5267460	127.1096733	145.2805379	111.2272688	62.71854773	83.82769094	68.53305052	0.783543086	4.180423608	3.6252235
D3GX28	TY-2482_chromosome	-	5267479	5268912	322.9389321	357.5182159	341.3213716	173.6527982	202.0332399	223.3735387	0.789197209	3.845373038	3.3163612

E5ZNV7	TY-2482_chromosome	-	5268912	5269130	49.72324698	82.0550057	61.29736835	18.88821222	22.79267192	19.80850168	1.54215129	8.219620833	7.3791606
C8UMT3	TY-2482_chromosome	-	5270141	5270362	75.54767111	83.75006065	64.36364599	35.90710367	59.44350231	21.81832924	0.831052695	3.017201882	2.5751274
B7LBX4	TY-2482_chromosome	-	5270599	5272686	199.8186424	190.3771008	164.7397679	47.58645273	66.54811062	52.75523636	1.728193546	14.8766493	13.744934
B7N312	TY-2482_chromosome	+	5276307	5277093	135.9581459	175.3595641	127.7390527	61.87950392	71.12331992	38.80922036	1.20729133	8.288209531	7.4444416
C8UMU1	TY-2482_chromosome	+	5277222	5277413	46.99402143	57.88355837	46.70170557	21.65986858	28.35021702	13.66957698	1.1441643	4.95271909	4.3335801
Q8VR34	TY-2482_chromosome	-	5277374	5277833	52.91461349	72.42306462	52.55889018	34.29353558	43.88339225	15.27164736	0.757801947	2.762281363	2.3499264
Q712Q2	TY-2482_chromosome	+	5278409	5278900	105.750719	74.13443217	89.06847401	369.7434436	300.3116701	226.9107024	-1.744820368	12.82961217	11.767714