

## Appendix A

### IRRI RiCA V.5

<b>Color Key:</b>	<b>Genome Wide Screen</b>
	<b>Trait Associated Markers</b>
	<b>Purity Markers</b>

<b>SNP NAME</b>	<b>Gene/QTL</b>	<b>Chromosome</b>	<b>Position</b>	<b>Alleles</b>
IRRI_SNP0001_CHR01_194844		1	194844	[G/A]
IRRI_SNP0002_CHR01_375814		1	375814	[G/T]
IRRI_SNP0003_CHR01_717702		1	717702	[G/A]
IRRI_SNP0005_CHR01_1044946		1	1044946	[A/G]
IRRI_SNP0006_CHR01_1175585		1	1175585	[A/G]
IRRI_SNP0008_CHR01_1532281		1	1532281	[A/C]
IRRI_SNP0009_CHR01_2100471		1	2100471	[C/T]
IRRI_SNP0010_CHR01_2277961		1	2277961	[T/C]
IRRI_SNP0011_CHR01_2532252		1	2532252	[T/C]
Q1879_IRRI_RiCAv5_SNP0949_MSU7_1_2532357_G-T		1	2532357	[G/T]
Q1879_IRRI_RiCAv5_SNP0950_MSU7_1_2563610_A-C		1	2563610	[A/C]
IRRI_SNP0012_CHR01_2726468		1	2726468	[T/C]
IRRI_SNP0013_CHR01_2865232		1	2865232	[T/C]
IRRI_SNP0014_CHR01_3236648		1	3236648	[A/C]
IRRI_SNP0015_CHR01_3529691		1	3529691	[G/A]
IRRI_SNP0016_CHR01_4167976		1	4167976	[G/A]
IRRI_SNP0017_CHR01_4307004		1	4307004	[T/C]
IRRI_SNP3001_MSU7_1_4743599_G-A	Rf3	1	4743599	[G/A]
IRRI_SNP3002_MSU7_1_4797026_C-T	Rf3	1	4797026	[C/T]
IRRI_SNP3003_MSU7_1_5024823_T-C	Rf3	1	5024823	[T/C]
IRRI_SNP0018_CHR01_5064126		1	5064126	[T/C]

IRRI_SNP0020_CHR01_5510350		1	5510350	[G/T]
IRRI_SNP0021_CHR01_6130240		1	6130240	[G/T]
IRRI_SNP0022_CHR01_6543217		1	6543217	[T/C]
IRRI_SNP0024_CHR01_7068516		1	7068516	[A/G]
IRRI_SNP0025_CHR01_7563923		1	7563923	[G/A]
Q1879_IRRI_RiCAv5_SNP0951_MSU7_1_8300940_T-C		1	8300940	[T/C]
Q1879_IRRI_RiCAv5_SNP0952_MSU7_1_8760193_T-C		1	8760193	[T/C]
IRRI_SNP0027_CHR01_8760562		1	8760562	[G/A]
Q1879_IRRI_RiCAv5_SNP0953_MSU7_1_8760574_G-A		1	8760574	[G/A]
IRRI_SNP0028_CHR01_9164508		1	9164508	[A/G]
IRRI_SNP0030_CHR01_10100605		1	10100605	[G/A]
IRRI_SNP0031_CHR01_10202227		1	10202227	[G/A]
IRRI_SNP0032_CHR01_10645259		1	10645259	[C/T]
IRRI_SNP0033_CHR01_10846090		1	10846090	[A/G]
IRRI_SNP0034_CHR01_11250486		1	11250486	[G/A]
IRRI_SNP0994_SALTOL-AUS	Saltol	1	11460344	[T/G]
IRRI_SNP0995_SALTOL-ARO	Saltol	1	11462124	[T/C]
IRRI_SNP0035_CHR01_12216652		1	12216652	[A/G]
IRRI_SNP0036_CHR01_12335190		1	12335190	[C/T]
Q1879_IRRI_RiCAv5_SNP0954_MSU7_1_12807793_T-G		1	12807793	[T/G]
IRRI_SNP0037_CHR01_12809255		1	12809255	[A/G]
Q1879_IRRI_RiCAv5_SNP0955_MSU7_1_12809419_T-C		1	12809419	[T/C]
Q1879_IRRI_RiCAv5_SNP0956_MSU7_1_12809494_T-C		1	12809494	[T/C]
IRRI_SNP0040_CHR01_13442034		1	13442034	[C/T]
IRRI_SNP0041_CHR01_13777831		1	13777831	[T/C]
IRRI_SNP0042_CHR01_13902629		1	13902629	[A/G]
IRRI_SNP0043_CHR01_14375630		1	14375630	[A/G]
IRRI_SNP0044_CHR01_14508449		1	14508449	[C/T]
IRRI_SNP0045_CHR01_14937939		1	14937939	[A/G]
IRRI_SNP0046_CHR01_15092392		1	15092392	[G/A]
IRRI_SNP0047_CHR01_15393352		1	15393352	[T/A]
IRRI_SNP0048_CHR01_15883941		1	15883941	[C/T]
IRRI_SNP0049_CHR01_16113201		1	16113201	[G/T]
IRRI_SNP0050_CHR01_16284866		1	16284866	[A/G]
IRRI_SNP0051_CHR01_16596849		1	16596849	[C/A]
IRRI_SNP0052_CHR01_17008280		1	17008280	[A/G]

IRRI_SNP0053_CHR01_17219764	1	17219764	[A/T]
Q1879_IRRI_RiCAv5_SNP0957_MSU7_1_17422297_C-G	1	17422297	[C/G]
Q1879_IRRI_RiCAv5_SNP0959_MSU7_1_17423201_T-G	1	17423201	[T/G]
Q1879_IRRI_RiCAv5_SNP0958_MSU7_1_17425528_T-C	1	17425528	[T/C]
IRRI_SNP0054_CHR01_17426109	1	17426109	[G/A]
IRRI_SNP0056_CHR01_18102213	1	18102213	[A/G]
IRRI_SNP0057_CHR01_18332445	1	18332445	[T/G]
IRRI_SNP0058_CHR01_18501890	1	18501890	[A/G]
IRRI_SNP0060_CHR01_19008526	1	19008526	[G/A]
IRRI_SNP0061_CHR01_19308987	1	19308987	[A/G]
IRRI_SNP0063_CHR01_20262103	1	20262103	[T/C]
IRRI_SNP0064_CHR01_20418175	1	20418175	[T/C]
IRRI_SNP0065_CHR01_20562598	1	20562598	[T/A]
IRRI_SNP0066_CHR01_21011077	1	21011077	[G/A]
Q1879_IRRI_RiCAv5_SNP0960_MSU7_1_21899931_G-A	1	21899931	[G/A]
Q1879_IRRI_RiCAv5_SNP0961_MSU7_1_21900509_T-C	1	21900509	[T/C]
Q1879_IRRI_RiCAv5_SNP0962_MSU7_1_21905342_A-C	1	21905342	[A/C]
IRRI_SNP0069_CHR01_22554065	1	22554065	[T/C]
IRRI_SNP1114_IRGSP1_C01_22891448	1	22891448	[C/T]
IRRI_SNP0071_CHR01_23091103	1	23091103	[A/C]
IRRI_SNP0072_CHR01_23240729	1	23240729	[G/A]
IRRI_SNP0073_CHR01_23656773	1	23656773	[A/C]
IRRI_SNP1115_IRGSP1_C01_23735018	1	23735018	[A/G]
IRRI_SNP0074_CHR01_24050118	1	24050118	[A/G]
IRRI_SNP0076_CHR01_24722142	1	24722142	[T/C]
Q1879_IRRI_RiCAv5_SNP0963_MSU7_1_25499981_T-C	1	25499981	[T/C]
Q1879_IRRI_RiCAv5_SNP0964_MSU7_1_25500519_T-G	1	25500519	[T/G]
Q1879_IRRI_RiCAv5_SNP0965_MSU7_1_25500556_A-C	1	25500556	[A/C]
IRRI_SNP0078_CHR01_26187514	1	26187514	[T/C]
IRRI_SNP0079_CHR01_27046296	1	27046296	[T/G]
IRRI_SNP0080_CHR01_27330724	1	27330724	[A/G]

IRRI_SNP0081_CHR01_28142020		1	28142020	[A/T]
IRRI_SNP0082_CHR01_28478660		1	28478660	[T/C]
Q1879_IRRI_RiCAv5_SNP0966_MSU7_1_28825674_A-G		1	28825674	[A/G]
Q1879_IRRI_RiCAv5_SNP0967_MSU7_1_28826156_T-C		1	28826156	[T/C]
IRRI_SNP0083_CHR01_28826738		1	28826738	[C/A]
Q1879_IRRI_RiCAv5_SNP0968_MSU7_1_29444128_A-G		1	29444128	[A/G]
IRRI_SNP0085_CHR01_30569798		1	30569798	[G/A]
IRRI_SNP0086_CHR01_31396842		1	31396842	[G/T]
IRRI_SNP0087_CHR01_32041358		1	32041358	[A/G]
IRRI_SNP0088_CHR01_32359998		1	32359998	[G/T]
IRRI_SNP0089_CHR01_32563460		1	32563460	[G/A]
IRRI_SNP3004_Pi35_E1054D	Pi35	1	33144288	[C/A]
IRRI_SNP3005_MSU7_1_33144909_T-G	Pi35	1	33144909	[T/G]
IRRI_SNP0091_CHR01_33164035		1	33164035	[G/A]
IRRI_SNP0092_CHR01_33472174		1	33472174	[T/C]
IRRI_SNP0093_CHR01_33695501		1	33695501	[A/T]
IRRI_SNP0094_CHR01_33901317		1	33901317	[G/T]
IRRI_SNP0096_CHR01_34363755		1	34363755	[C/A]
IRRI_SNP0097_CHR01_34508997		1	34508997	[T/C]
IRRI_SNP0098_CHR01_35259107		1	35259107	[T/A]
Q1879_IRRI_RiCAv5_SNP0969_MSU7_1_35259121_A-G		1	35259121	[A/G]
Q1879_IRRI_RiCAv5_SNP0970_MSU7_1_35259442_T-C		1	35259442	[T/C]
IRRI_SNP0099_CHR01_35589637		1	35589637	[C/T]
IRRI_SNP0105_CHR01_37920337		1	37920337	[T/A]
IRRI_SNP0997_DTY1-1_1	DTY1.1	1	38081544	[G/C]
Q1879_IRRI_RiCAv5_SNP1065_MSU7_1_38382846_Indel	sd1-3	1	38382846	[-/CG]
Q1879_IRRI_RiCAv5_SNP1066_MSU7_1_38383286_T-C	sd1-5	1	38383286	[T/C]
Q1879_IRRI_RiCAv5_SNP1067_MSU7_1_38414420_G-A	sd1-IRRI154	1	38414420	[G/A]
Q1879_IRRI_RiCAv5_SNP1064_MSU7_1_38418739_G-A	sd1-IR8	1	38418739	[G/A]
IRRI_SNP0998_DTY1-1_2	DTY1.1	1	38456729	[A/G]
IRRI_SNP0106_CHR01_38632196		1	38632196	[T/A]
IRRI_SNP0999_DTY1-1_3	DTY1.1	1	39014751	[A/G]

IRRI_SNP1000_SCT1_1	qSCT1	1	39188650	[C/T]
IRRI_SNP1001_SCT1_2	qSCT1	1	39213471	[A/C]
IRRI_SNP1002_QSES1-2_1	qNa1L	1	39313463	[A/G]
IRRI_SNP0107_CHR01_39548506		1	39548506	[T/C]
IRRI_SNP1003_SCT1_3	qSCT1	1	39553459	[T/G]
IRRI_SNP1004_SCT1_4	qSCT1	1	39553546	[C/T]
IRRI_SNP1006_QSES1-2_2	qNa1L	1	39826525	[C/T]
IRRI_SNP0108_CHR01_39955529		1	39955529	[C/A]
IRRI_SNP3007_MSU7_1_40073902_C-A	RYMV2	1	40073902	[C/A]
IRRI_SNP1007_QSES1-2_3	qNa1L	1	40362958	[A/G]
IRRI_SNP1008_QSES1-2_4	qNa1L	1	40611906	[T/A]
IRRI_SNP0109_CHR01_40699488		1	40699488	[G/A]
IRRI_SNP0110_CHR01_41020155		1	41020155	[C/T]
IRRI_SNP0112_CHR01_41911439		1	41911439	[A/T]
Q1879_IRRI_RiCAv5_SNP0971_MSU7_1_41911861_A-C		1	41911861	[A/C]
Q1879_IRRI_RiCAv5_SNP0972_MSU7_1_41913264_A-T		1	41913264	[A/T]
IRRI_SNP0113_CHR01_42425574		1	42425574	[A/G]
IRRI_SNP0115_CHR01_42877440		1	42877440	[T/C]
IRRI_SNP0117_CHR02_103273		2	103273	[A/T]
IRRI_SNP0118_CHR02_316859		2	316859	[C/T]
IRRI_SNP0119_CHR02_494373		2	494373	[C/T]
IRRI_SNP0121_CHR02_890901		2	890901	[C/T]
IRRI_SNP1009_DTY2-2_1	DTY2.2	2	1050171	[C/A]
IRRI_SNP1102_MS-IR36	ms-IR36	2	1076776	[G/T]
Q1879_IRRI_RiCAv5_SNP0973_MSU7_2_1078169_A-G		2	1078169	[A/G]
Q1879_IRRI_RiCAv5_SNP0974_MSU7_2_1079151_G-T		2	1079151	[G/T]
Q1879_IRRI_RiCAv5_SNP0975_MSU7_2_1079659_A-G		2	1079659	[A/G]
Q1879_IRRI_RiCAv5_SNP0976_MSU7_2_1079662_C-T		2	1079662	[C/T]
IRRI_SNP0122_CHR02_1082416		2	1082416	[A/G]
IRRI_SNP0124_CHR02_1380527		2	1380527	[A/G]
IRRI_SNP0125_CHR02_1487009		2	1487009	[T/C]
IRRI_SNP0126_CHR02_1660713		2	1660713	[T/C]
IRRI_SNP0128_CHR02_2334960		2	2334960	[T/C]
IRRI_SNP1010_DTY2-2_2	DTY2.2	2	2542883	[T/A]
IRRI_SNP0129_CHR02_2819095		2	2819095	[C/T]

IRRI_SNP0130_CHR02_2983451		2	2983451	[G/A]
IRRI_SNP0131_CHR02_3136771		2	3136771	[A/T]
IRRI_SNP0132_CHR02_3477202		2	3477202	[A/C]
IRRI_SNP0134_CHR02_4047646		2	4047646	[A/G]
IRRI_SNP0135_CHR02_4342883		2	4342883	[T/C]
IRRI_SNP1109_IRGSP1_C02_4549475		2	4549475	[A/T]
IRRI_SNP0136_CHR02_4823175		2	4823175	[C/T]
IRRI_SNP1011_DTY2-2_3	DTY2.2	2	4871846	[A/G]
IRRI_SNP0137_CHR02_4930742		2	4930742	[T/C]
Q1879_IRRI_RiCAv5_SNP0977_MSU7_2_5497373_G-T		2	5497373	[G/T]
Q1879_IRRI_RiCAv5_SNP0978_MSU7_2_5498364_G-C		2	5498364	[G/C]
Q1879_IRRI_RiCAv5_SNP0979_MSU7_2_5500050_T-C		2	5500050	[T/C]
IRRI_SNP1012_DTY2-2_4	DTY2.2	2	6267235	[C/T]
IRRI_SNP0142_CHR02_6373446		2	6373446	[C/G]
IRRI_SNP3008_tms5-STOP	tms5	2	6397412	[A/C]
IRRI_SNP0143_CHR02_6805305		2	6805305	[T/A]
IRRI_SNP0144_CHR02_7238793		2	7238793	[A/G]
IRRI_SNP0145_CHR02_7342223		2	7342223	[G/T]
IRRI_SNP0146_CHR02_8019748		2	8019748	[T/G]
IRRI_SNP0147_CHR02_8814718		2	8814718	[G/A]
Q1879_IRRI_RiCAv5_SNP1068_MSU7_2_9042289_A-G	LP	2	9042289	[A/G]
IRRI_SNP0148_CHR02_9570228		2	9570228	[G/A]
IRRI_SNP0150_CHR02_9975660		2	9975660	[A/G]
IRRI_SNP0151_CHR02_10555263		2	10555263	[T/C]
IRRI_SNP0152_CHR02_10874369		2	10874369	[G/T]
IRRI_SNP0154_CHR02_11701123		2	11701123	[A/G]
Q1879_IRRI_RiCAv5_SNP0980_MSU7_2_12591710_C-T		2	12591710	[C/T]
Q1879_IRRI_RiCAv5_SNP0981_MSU7_2_12595022_G-A		2	12595022	[G/A]
Q1879_IRRI_RiCAv5_SNP0982_MSU7_2_12595854_T-A		2	12595854	[T/A]
IRRI_SNP0155_CHR02_13962476		2	13962476	[T/A]
Q1879_IRRI_RiCAv5_SNP0983_MSU7_2_15327310_G-A		2	15327310	[G/A]
Q1879_IRRI_RiCAv5_SNP0984_MSU7_2_15618975_T-C		2	15618975	[T/C]

IRRI_SNP0157_CHR02_16464872		2	16464872	[C/T]
IRRI_SNP0158_CHR02_16919033		2	16919033	[A/G]
IRRI_SNP0159_CHR02_17160895		2	17160895	[C/T]
IRRI_SNP0160_CHR02_17497082		2	17497082	[G/A]
IRRI_SNP0161_CHR02_17789129		2	17789129	[G/A]
IRRI_SNP0162_CHR02_18370293		2	18370293	[G/A]
IRRI_SNP0163_CHR02_18811812		2	18811812	[G/T]
IRRI_SNP3010_MSU7_2_19365137_C-T	BEIib	2	19365137	[C/T]
IRRI_SNP3011_MSU7_2_19366170_C-A	BEIib	2	19366170	[C/A]
IRRI_SNP3012_MSU7_2_19366631_C-A	BEIib	2	19366631	[C/A]
IRRI_SNP0165_CHR02_19642635		2	19642635	[C/T]
IRRI_SNP0167_CHR02_20145859		2	20145859	[C/T]
IRRI_SNP0168_CHR02_20824958		2	20824958	[A/G]
IRRI_SNP0169_CHR02_21060669		2	21060669	[T/C]
IRRI_SNP0170_CHR02_21832777		2	21832777	[A/G]
IRRI_SNP0172_CHR02_23073414		2	23073414	[G/T]
IRRI_SNP0173_CHR02_23396915		2	23396915	[C/A]
IRRI_SNP0174_CHR02_23538743		2	23538743	[G/A]
IRRI_SNP0175_CHR02_23852677		2	23852677	[A/G]
IRRI_SNP0176_CHR02_24168273		2	24168273	[A/G]
IRRI_SNP0177_CHR02_24264653		2	24264653	[A/C]
IRRI_SNP0178_CHR02_24772301		2	24772301	[C/A]
IRRI_SNP0179_CHR02_24887320		2	24887320	[T/C]
IRRI_SNP0180_CHR02_25193353		2	25193353	[T/C]
IRRI_SNP0181_CHR02_25415397		2	25415397	[T/A]
IRRI_SNP0182_CHR02_25949636		2	25949636	[A/C]
IRRI_SNP0183_CHR02_26406867		2	26406867	[A/G]
IRRI_SNP0184_CHR02_27548893		2	27548893	[A/C]
IRRI_SNP0185_CHR02_28049479		2	28049479	[G/A]
IRRI_SNP0186_CHR02_28211032		2	28211032	[C/T]
IRRI_SNP0187_CHR02_28778297		2	28778297	[A/G]
IRRI_SNP0188_CHR02_29011747		2	29011747	[T/A]
IRRI_SNP0189_CHR02_29415200		2	29415200	[T/C]
IRRI_SNP0190_CHR02_29568762		2	29568762	[C/T]
IRRI_SNP0191_CHR02_29718772		2	29718772	[T/C]
IRRI_SNP0192_CHR02_30345735		2	30345735	[A/C]
IRRI_SNP0193_CHR02_30530432		2	30530432	[A/G]
IRRI_SNP0194_CHR02_31135814		2	31135814	[T/C]

IRRI_SNP0196_CHR02_31678155		2	31678155	[G/T]
IRRI_SNP0197_CHR02_31914486		2	31914486	[A/G]
IRRI_SNP0198_CHR02_32101050		2	32101050	[G/A]
IRRI_SNP0199_CHR02_32303539		2	32303539	[T/A]
IRRI_SNP0200_CHR02_33035683		2	33035683	[A/G]
IRRI_SNP0202_CHR02_34072964		2	34072964	[C/T]
IRRI_SNP0203_CHR02_34425408		2	34425408	[G/A]
IRRI_SNP0204_CHR02_34707946		2	34707946	[T/G]
IRRI_SNP1118_IRGSP1_C02_34852782		2	34852782	[T/C]
IRRI_SNP0205_CHR02_34865754		2	34865754	[A/G]
IRRI_SNP0206_CHR02_34868096		2	34868096	[G/A]
IRRI_SNP0207_CHR02_35216781		2	35216781	[A/C]
IRRI_SNP0208_CHR02_35401891		2	35401891	[A/C]
IRRI_SNP0209_CHR02_35568365		2	35568365	[G/A]
IRRI_SNP0210_CHR02_35818319		2	35818319	[T/C]
Q1879_IRRI_RiCAv5_SNP0985_MSU7_3_8355_A-G		3	8355	[A/G]
Q1879_IRRI_RiCAv5_SNP0986_MSU7_3_8671_C-T		3	8671	[C/T]
IRRI_SNP0211_CHR03_484812		3	484812	[T/C]
IRRI_SNP0212_CHR03_851785		3	851785	[T/C]
IRRI_SNP0213_CHR03_1270943		3	1270943	[G/A]
IRRI_SNP1015_DTY3-2-SWARNA_1	DTY3.2	3	1270943	[G/A]
IRRI_SNP1016_DTY3-2-IR64_1	DTY3.2	3	1271431	[A/G]
IRRI_SNP1017_DTY3-2-N22_1	DTY3.2	3	1272146	[T/G]
IRRI_SNP0215_CHR03_1761412		3	1761412	[G/A]
IRRI_SNP0216_CHR03_2151496		3	2151496	[G/A]
IRRI_SNP0217_CHR03_2885423		3	2885423	[T/C]
IRRI_SNP0218_CHR03_3382980		3	3382980	[G/T]
IRRI_SNP0219_CHR03_3657643		3	3657643	[G/C]
IRRI_SNP0220_CHR03_4047654		3	4047654	[T/C]
IRRI_SNP0221_CHR03_4321231		3	4321231	[C/T]
IRRI_SNP0222_CHR03_5109298		3	5109298	[T/C]
IRRI_SNP0223_CHR03_5880211		3	5880211	[T/C]
IRRI_SNP0224_CHR03_6283461		3	6283461	[T/C]
IRRI_SNP0225_CHR03_6902921		3	6902921	[A/G]
IRRI_SNP0226_CHR03_7200676		3	7200676	[A/T]
IRRI_SNP1119_IRGSP1_C03_7752789		3	7752789	[A/G]



IRRI_SNP0228_CHR03_7798537		3	7798537	[A/G]
IRRI_SNP0229_CHR03_8532555		3	8532555	[A/G]
IRRI_SNP0230_CHR03_8711509		3	8711509	[G/A]
IRRI_SNP0231_CHR03_9026803		3	9026803	[C/T]
IRRI_SNP0232_CHR03_9375374		3	9375374	[G/A]
IRRI_SNP0233_CHR03_9636224		3	9636224	[T/C]
IRRI_SNP0234_CHR03_9751213		3	9751213	[C/T]
IRRI_SNP0236_CHR03_10184356		3	10184356	[G/A]
IRRI_SNP0237_CHR03_10304250		3	10304250	[G/A]
IRRI_SNP0238_CHR03_10544320		3	10544320	[T/C]
IRRI_SNP0239_CHR03_10798982		3	10798982	[C/T]
IRRI_SNP0241_CHR03_11644944		3	11644944	[C/T]
IRRI_SNP0242_CHR03_11851886		3	11851886	[A/C]
IRRI_SNP0243_CHR03_12564300		3	12564300	[T/C]
IRRI_SNP0244_CHR03_13224089		3	13224089	[T/C]
IRRI_SNP0245_CHR03_13932387		3	13932387	[C/A]
IRRI_SNP0246_CHR03_14169727		3	14169727	[G/T]
IRRI_SNP0247_CHR03_14554651		3	14554651	[C/G]
IRRI_SNP1120_IRGSP1_C03_14933451		3	14933451	[A/G]
IRRI_SNP0249_CHR03_15072791		3	15072791	[A/C]
IRRI_SNP0250_CHR03_15365726		3	15365726	[T/G]
IRRI_SNP3013_MSU7_3_15421809_C-T	TT1	3	15421809	[C/T]
IRRI_SNP3014_MSU7_3_15422542_A-G	TT1	3	15422542	[A/G]
IRRI_SNP3015_MSU7_3_15423345_A-G	TT1	3	15423345	[A/G]
IRRI_SNP1018_GS3	GS3	3	16733441	[T/G]
IRRI_SNP0252_CHR03_17307455		3	17307455	[G/T]
IRRI_SNP0254_CHR03_18273682		3	18273682	[T/C]
Q1879_IRRI_RiCAv5_SNP1069_MSU7_3_18437518_C-G	Bsr-D1-02	3	18437518	[C/G]
Q1879_IRRI_RiCAv5_SNP1070_MSU7_3_18437564_C-T	Bsr-D1-01	3	18437564	[C/T]
IRRI_SNP0255_CHR03_18629240		3	18629240	[G/A]
IRRI_SNP0256_CHR03_19667207		3	19667207	[C/T]
IRRI_SNP0258_CHR03_20664396		3	20664396	[G/A]
IRRI_SNP0259_CHR03_21003404		3	21003404	[T/C]
IRRI_SNP0260_CHR03_22050510		3	22050510	[T/C]
IRRI_SNP0261_CHR03_22633713		3	22633713	[A/G]
IRRI_SNP0264_CHR03_23851835		3	23851835	[G/T]

IRRI_SNP0265_CHR03_24413888		3	24413888	[A/G]
IRRI_SNP0267_CHR03_25157655		3	25157655	[G/A]
IRRI_SNP0268_CHR03_25259336		3	25259336	[G/A]
IRRI_SNP0269_CHR03_25530777		3	25530777	[G/A]
IRRI_SNP0270_CHR03_25833182		3	25833182	[G/T]
IRRI_SNP0271_CHR03_26334305		3	26334305	[C/T]
IRRI_SNP0272_CHR03_26456796		3	26456796	[T/G]
IRRI_SNP0274_CHR03_26982172		3	26982172	[A/T]
IRRI_SNP0275_CHR03_27275567		3	27275567	[T/G]
IRRI_SNP0276_CHR03_27494934		3	27494934	[C/T]
IRRI_SNP0277_CHR03_27813704		3	27813704	[G/A]
IRRI_SNP3019_MSU7_3_28093193_A-G	LOX3	3	28093193	[C/T]
IRRI_SNP0278_CHR03_28851199		3	28851199	[A/C]
IRRI_SNP0280_CHR03_29430694		3	29430694	[T/A]
IRRI_SNP0281_CHR03_30247826		3	30247826	[G/T]
IRRI_SNP0282_CHR03_30604896		3	30604896	[C/T]
IRRI_SNP1021_DTY3-1_2	DTY3.1	3	31008659	[C/T]
IRRI_SNP0284_CHR03_31190989		3	31190989	[A/G]
IRRI_SNP1022_DTY3-1_4	DTY3.1	3	31323659	[C/G]
IRRI_SNP0285_CHR03_31427789		3	31427789	[G/T]
IRRI_SNP0286_CHR03_31614921		3	31614921	[A/T]
IRRI_SNP0288_CHR03_32063693		3	32063693	[C/T]
IRRI_SNP0289_CHR03_32430702		3	32430702	[A/C]
IRRI_SNP0290_CHR03_32577650		3	32577650	[A/G]
IRRI_SNP0291_CHR03_32832500		3	32832500	[T/A]
Q1879_IRRI_RiCAv5_SNP0987_MSU7_3_33494910_T-C		3	33494910	[T/C]
Q1879_IRRI_RiCAv5_SNP0988_MSU7_3_33496448_G-T		3	33496448	[G/T]
Q1879_IRRI_RiCAv5_SNP0989_MSU7_3_33496481_C-G		3	33496481	[C/G]
IRRI_SNP0295_CHR03_34275405		3	34275405	[G/A]
IRRI_SNP0296_CHR03_34476308		3	34476308	[C/T]
IRRI_SNP0297_CHR03_34678981		3	34678981	[T/G]
IRRI_SNP0299_CHR03_35093761		3	35093761	[A/G]
IRRI_SNP0300_CHR03_35636092		3	35636092	[G/A]
IRRI_SNP3021_MSU7_3_36149383_A-G	GNP1	3	36149383	[A/G]
IRRI_SNP3022_MSU7_3_36149901_T-A	GNP1	3	36149901	[T/A]
IRRI_SNP0302_CHR03_36206765		3	36206765	[T/C]

IRRI_SNP1023_DTY4-1_1	DTY4.1	4	175984	[T/C]
IRRI_SNP0303_CHR04_193676		4	193676	[T/A]
IRRI_SNP1121_IRGSP1_C04_602842		4	602842	[T/G]
IRRI_SNP1024_DTY4-1_2	DTY4.1	4	914761	[C/A]
IRRI_SNP0305_CHR04_1022225		4	1022225	[G/A]
IRRI_SNP0306_CHR04_1136986		4	1136986	[T/C]
IRRI_SNP0308_CHR04_1719865		4	1719865	[T/C]
IRRI_SNP1025_DTY4-1_3	DTY4.1	4	1969661	[C/T]
Q1879_IRRI_RiCAv5_SNP0990_MSU7_4_2499039_C-T		4	2499039	[C/T]
Q1879_IRRI_RiCAv5_SNP0991_MSU7_4_2499856_T-C		4	2499856	[T/C]
Q1879_IRRI_RiCAv5_SNP0992_MSU7_4_2500559_T-G		4	2500559	[T/G]
Q1879_IRRI_RiCAv5_SNP0993_MSU7_4_2501854_G-A		4	2501854	[G/A]
IRRI_SNP0310_CHR04_3411505		4	3411505	[C/A]
IRRI_SNP1122_IRGSP1_C04_4319691		4	4319691	[T/C]
IRRI_SNP0311_CHR04_4456304		4	4456304	[C/T]
IRRI_SNP0312_CHR04_5111222		4	5111222	[C/T]
IRRI_SNP0313_CHR04_5526487		4	5526487	[A/G]
IRRI_SNP0315_CHR04_6027557		4	6027557	[C/T]
IRRI_SNP0317_CHR04_6596219		4	6596219	[C/T]
IRRI_SNP0318_CHR04_6913215		4	6913215	[A/G]
IRRI_SNP1026_BPH17_1	BPH17	4	6942449	[T/C]
IRRI_SNP1028_BPH17_2	BPH17	4	6979033	[G/C]
IRRI_SNP0319_CHR04_7170237		4	7170237	[C/T]
IRRI_SNP0320_CHR04_7304413		4	7304413	[G/T]
IRRI_SNP0321_CHR04_7871436		4	7871436	[T/C]
IRRI_SNP0322_CHR04_8217877		4	8217877	[G/A]
Q1879_IRRI_RiCAv5_SNP0994_MSU7_4_9290527_C-T		4	9290527	[C/T]
Q1879_IRRI_RiCAv5_SNP0995_MSU7_4_9293163_T-C		4	9293163	[T/C]
Q1879_IRRI_RiCAv5_SNP0996_MSU7_4_9293178_T-C		4	9293178	[T/C]
Q1879_IRRI_RiCAv5_SNP0997_MSU7_4_9294037_T-C		4	9294037	[T/C]
IRRI_SNP0324_CHR04_10077188		4	10077188	[G/A]
IRRI_SNP0325_CHR04_10468507		4	10468507	[A/G]

IRRI_SNP0326_CHR04_10991011		4	10991011	[T/C]
IRRI_SNP0329_CHR04_11879947		4	11879947	[A/G]
IRRI_SNP0333_CHR04_12594753		4	12594753	[A/G]
IRRI_SNP0334_CHR04_12665796		4	12665796	[C/T]
IRRI_SNP0335_CHR04_12684621		4	12684621	[C/T]
IRRI_SNP0336_CHR04_12711415		4	12711415	[T/C]
IRRI_SNP0338_CHR04_13551673		4	13551673	[G/A]
IRRI_SNP0339_CHR04_13665093		4	13665093	[C/T]
IRRI_SNP0340_CHR04_14229856		4	14229856	[T/C]
IRRI_SNP0341_CHR04_14814591		4	14814591	[G/A]
IRRI_SNP0342_CHR04_15389648		4	15389648	[G/A]
IRRI_SNP0344_CHR04_16289829		4	16289829	[A/C]
IRRI_SNP0346_CHR04_16715200		4	16715200	[C/A]
IRRI_SNP0347_CHR04_17465113		4	17465113	[G/T]
IRRI_SNP0348_CHR04_17666183		4	17666183	[G/T]
IRRI_SNP0350_CHR04_18136052		4	18136052	[C/A]
IRRI_SNP0351_CHR04_18706317		4	18706317	[A/G]
IRRI_SNP0352_CHR04_19123643		4	19123643	[G/A]
IRRI_SNP0353_CHR04_19353709		4	19353709	[A/G]
IRRI_SNP3023_MSU7_4_19796129_T-C	pi21	4	19796129	[T/C]
IRRI_SNP3024_MSU7_4_19841202_T-C	pi21	4	19841202	[T/C]
IRRI_SNP3025_MSU7_4_19841904_T-C	pi21	4	19841904	[T/C]
IRRI_SNP0354_CHR04_20507218		4	20507218	[A/G]
IRRI_SNP0355_CHR04_21237749		4	21237749	[C/T]
IRRI_SNP0356_CHR04_21517348		4	21517348	[T/G]
IRRI_SNP0357_CHR04_21864875		4	21864875	[A/G]
IRRI_SNP0358_CHR04_22435296		4	22435296	[G/A]
IRRI_SNP0359_CHR04_22808095		4	22808095	[G/A]
IRRI_SNP0360_CHR04_23046635		4	23046635	[T/A]
IRRI_SNP0361_CHR04_23248365		4	23248365	[C/T]
IRRI_SNP0363_CHR04_23846299		4	23846299	[G/T]
IRRI_SNP3026_MSU7_4_23886659_Indel	BET1	4	23886659	[-/T]
IRRI_SNP1030_RYMV1-4	RYMV1	4	24948686	[T/C]
IRRI_SNP1031_RYMV1-5	RYMV1	4	24948702	[- /CCAGTCAA T]
IRRI_SNP1032_RYMV1-2	RYMV1	4	24948722	[T/C]
IRRI_SNP0365_CHR04_25245272		4	25245272	[G/A]

IRRI_SNP0366_CHR04_25437295		4	25437295	[C/A]
IRRI_SNP0367_CHR04_26309089		4	26309089	[C/T]
IRRI_SNP0368_CHR04_26545849		4	26545849	[A/G]
IRRI_SNP0369_CHR04_26832471		4	26832471	[C/A]
IRRI_SNP0370_CHR04_27540988		4	27540988	[C/A]
IRRI_SNP0371_CHR04_28004788		4	28004788	[T/C]
IRRI_SNP0372_CHR04_28901886		4	28901886	[C/T]
IRRI_SNP0374_CHR04_29533215		4	29533215	[C/T]
IRRI_SNP0375_CHR04_29715617		4	29715617	[G/A]
IRRI_SNP0376_CHR04_29881066		4	29881066	[C/A]
IRRI_SNP1033_COLD1-JAP	COLD1	4	30315214	[T/A]
IRRI_SNP0379_CHR04_30879875		4	30879875	[T/C]
IRRI_SNP1034_NAL1	NAL1	4	31212801	[A/G]
IRRI_SNP1035_TBV1_2	TBV1	4	31240651	[A/C]
IRRI_SNP0380_CHR04_31509863		4	31509863	[G/A]
IRRI_SNP0382_CHR04_32038496		4	32038496	[G/A]
IRRI_SNP0385_CHR04_33073892		4	33073892	[G/A]
IRRI_SNP0386_CHR04_33448911		4	33448911	[G/T]
IRRI_SNP0388_CHR04_34925111		4	34925111	[G/T]
IRRI_SNP0390_CHR04_35395197		4	35395197	[C/T]
IRRI_SNP0392_CHR05_201193		5	201193	[C/A]
IRRI_SNP0393_CHR05_437499		5	437499	[T/A]
IRRI_SNP0395_CHR05_661832		5	661832	[A/G]
IRRI_SNP0396_CHR05_922530		5	922530	[G/A]
IRRI_SNP0398_CHR05_1487229		5	1487229	[T/C]
IRRI_SNP0399_CHR05_1832604		5	1832604	[G/T]
IRRI_SNP0400_CHR05_2045112		5	2045112	[G/T]
IRRI_SNP0404_CHR05_3092113		5	3092113	[C/T]
IRRI_SNP3027_Chalk5_5.1	Chalk5	5	3339314	[T/G]
IRRI_SNP3028_chalk5_576	Alk	5	3340295	[G/A]
IRRI_SNP0405_CHR05_3470087		5	3470087	[A/C]
IRRI_SNP0406_CHR05_3817643		5	3817643	[C/T]
IRRI_SNP0407_CHR05_4205413		5	4205413	[C/A]
IRRI_SNP0408_CHR05_4589783		5	4589783	[G/T]
IRRI_SNP0409_CHR05_4819475		5	4819475	[G/T]
IRRI_SNP0410_CHR05_4953754		5	4953754	[G/A]
IRRI_SNP3029_MSU7_5_5360689_T-C	GW5	5	5360689	[T/C]
IRRI_SNP1037_GW5_1	GW5	5	5361244	[C/T]
IRRI_SNP1038_GW5_2	GW5	5	5361329	[A/G]
IRRI_SNP0411_CHR05_6129755		5	6129755	[A/G]

IRRI_SNP0412_CHR05_6544781		5	6544781	[C/A]
IRRI_SNP0414_CHR05_6833061		5	6833061	[C/T]
IRRI_SNP0415_CHR05_7195992		5	7195992	[G/A]
IRRI_SNP0416_CHR05_7328783		5	7328783	[A/G]
IRRI_SNP0417_CHR05_7706179		5	7706179	[G/A]
IRRI_SNP0418_CHR05_8080666		5	8080666	[G/A]
IRRI_SNP0419_CHR05_8384781		5	8384781	[A/G]
IRRI_SNP0420_CHR05_8585466		5	8585466	[C/T]
Q1879_IRRI_RiCAv5_SNP0998_MSU7_5_9216966_T-C		5	9216966	[T/C]
Q1879_IRRI_RiCAv5_SNP0999_MSU7_5_9217415_C-T		5	9217415	[C/T]
Q1879_IRRI_RiCAv5_SNP1000_MSU7_5_9242779_C-G		5	9242779	[C/G]
IRRI_SNP0422_CHR05_9712988		5	9712988	[C/T]
IRRI_SNP0423_CHR05_10539124		5	10539124	[G/A]
IRRI_SNP0424_CHR05_10886331		5	10886331	[T/C]
IRRI_SNP0425_CHR05_11679660		5	11679660	[T/C]
Q1879_IRRI_RiCAv5_SNP1001_MSU7_5_12681662_G-A		5	12681662	[G/A]
Q1879_IRRI_RiCAv5_SNP1002_MSU7_5_12681700_C-T		5	12681700	[C/T]
IRRI_SNP0426_CHR05_13325546		5	13325546	[T/C]
IRRI_SNP0427_CHR05_13768744		5	13768744	[T/C]
IRRI_SNP1123_IRGSP1_C05_13854594		5	13854594	[C/T]
IRRI_SNP0428_CHR05_14412355		5	14412355	[G/A]
IRRI_SNP0430_CHR05_14928105		5	14928105	[A/G]
IRRI_SNP0433_CHR05_16262586		5	16262586	[C/A]
IRRI_SNP0434_CHR05_16500527		5	16500527	[G/A]
IRRI_SNP0435_CHR05_16752221		5	16752221	[C/A]
IRRI_SNP0436_CHR05_16955234		5	16955234	[G/T]
IRRI_SNP0437_CHR05_17012134		5	17012134	[G/A]
IRRI_SNP0438_CHR05_17017106		5	17017106	[C/T]
Q1879_IRRI_RiCAv5_SNP1003_MSU7_5_17912016_G-A		5	17912016	[G/A]
Q1879_IRRI_RiCAv5_SNP1004_MSU7_5_17912695_T-C		5	17912695	[T/C]
IRRI_SNP0440_CHR05_18405433		5	18405433	[T/C]
IRRI_SNP3030_MSU7_5_18815386_T-C	NGR5	5	18815386	[T/C]

IRRI_SNP3031_MSU7_5_18815575_T-C	NGR5	5	18815575	[T/C]
IRRI_SNP0441_CHR05_18816269		5	18816269	[C/T]
IRRI_SNP3032_MSU7_5_18816269_C-T	NGR5	5	18816269	[C/T]
IRRI_SNP0442_CHR05_19098650		5	19098650	[T/C]
IRRI_SNP0443_CHR05_19155333		5	19155333	[G/A]
IRRI_SNP0445_CHR05_19723342		5	19723342	[A/G]
IRRI_SNP0446_CHR05_19974373		5	19974373	[A/G]
IRRI_SNP0447_CHR05_20331215		5	20331215	[C/A]
IRRI_SNP0448_CHR05_20551103		5	20551103	[T/C]
IRRI_SNP0449_CHR05_21494622		5	21494622	[T/C]
Q1879_IRRI_RiCAv5_SNP1005_MSU7_5_22061284_A-C		5	22061284	[A/C]
Q1879_IRRI_RiCAv5_SNP1006_MSU7_5_22061440_T-C		5	22061440	[T/C]
Q1879_IRRI_RiCAv5_SNP1007_MSU7_5_22063638_T-C		5	22063638	[T/C]
Q1879_IRRI_RiCAv5_SNP1008_MSU7_5_22064591_T-C		5	22064591	[T/C]
IRRI_SNP0452_CHR05_22711811		5	22711811	[A/G]
IRRI_SNP0453_CHR05_23143060		5	23143060	[C/A]
IRRI_SNP0454_CHR05_23661597		5	23661597	[C/A]
IRRI_SNP0456_CHR05_24090514		5	24090514	[C/A]
IRRI_SNP0457_CHR05_25234430		5	25234430	[G/A]
Q1879_IRRI_RiCAv5_SNP1009_MSU7_5_26253103_T-C		5	26253103	[T/C]
Q1879_IRRI_RiCAv5_SNP1010_MSU7_5_26293992_C-A		5	26293992	[C/A]
Q1879_IRRI_RiCAv5_SNP1011_MSU7_5_26294272_A-G		5	26294272	[A/G]
IRRI_SNP0459_CHR05_27086886		5	27086886	[A/G]
IRRI_SNP0461_CHR05_27531788		5	27531788	[A/G]
IRRI_SNP0462_CHR05_27627633		5	27627633	[G/A]
IRRI_SNP0463_CHR05_27899049		5	27899049	[T/G]
IRRI_SNP0464_CHR05_28101376		5	28101376	[G/A]
IRRI_SNP0465_CHR05_28344771		5	28344771	[A/G]
IRRI_SNP0467_CHR05_28772543		5	28772543	[C/G]
IRRI_SNP0468_CHR05_29100308		5	29100308	[A/G]
IRRI_SNP0470_CHR06_244274		6	244274	[G/A]
IRRI_SNP0471_CHR06_400753		6	400753	[G/A]
IRRI_SNP0472_CHR06_646915		6	646915	[A/G]

IRRI_SNP0473_CHR06_677288		6	677288	[A/G]
IRRI_SNP1039_BPH32	BPH32	6	1223332	[G/C]
IRRI_SNP0474_CHR06_1272777		6	1272777	[A/G]
IRRI_SNP0475_CHR06_1378891		6	1378891	[A/G]
IRRI_SNP0476_CHR06_1521855		6	1521855	[A/C]
Q1879_IRRI_RiCAv5_SNP1071_MSU7_6_1759451_T-C	Wx(int)- Basmati	6	1759451	[T/C]
IRRI_SNP3034_MSU7_6_1765761_T-G	Waxy	6	1765761	[T/G]
IRRI_SNP1040_WX-OP	Waxy	6	1767637	[A/G]
IRRI_SNP0478_CHR06_1768006		6	1768006	[A/C]
IRRI_SNP1042_WX-A_GROUP	Waxy	6	1768724	[C/T]
IRRI_SNP3035_MSU7_6_1768795_G-A	Waxy	6	1768795	[G/A]
IRRI_SNP0479_CHR06_1768998		6	1768998	[C/T]
IRRI_SNP1044_WX-A-RC222	Waxy	6	1768998	[T/C]
IRRI_SNP3036_MSU7_6_1770848_C-G	Waxy	6	1770848	[C/G]
IRRI_SNP0481_CHR06_2430760		6	2430760	[T/C]
IRRI_SNP0482_CHR06_2535102		6	2535102	[T/C]
IRRI_SNP0483_CHR06_2783620		6	2783620	[G/A]
IRRI_SNP0484_CHR06_2808467		6	2808467	[A/G]
IRRI_SNP3038_MSU7_6_2926913_G-T	RFT1	6	2926913	[G/T]
IRRI_SNP3039_MSU7_6_2928178_G-A	RFT1	6	2928178	[G/A]
IRRI_SNP3040_MSU7_6_2928343_G-A	RFT1	6	2928343	[G/A]
IRRI_SNP3041_MSU7_6_2941965_T-A	Hd3a	6	2941965	[T/A]
IRRI_SNP0485_CHR06_3140863		6	3140863	[G/A]
IRRI_SNP0486_CHR06_3244503		6	3244503	[T/C]
IRRI_SNP0487_CHR06_3431721		6	3431721	[G/A]
IRRI_SNP0488_CHR06_3598843		6	3598843	[A/G]
IRRI_SNP0489_CHR06_3632725		6	3632725	[C/T]
IRRI_SNP0490_CHR06_3721346		6	3721346	[T/C]
IRRI_SNP0491_CHR06_3951547		6	3951547	[G/A]
IRRI_SNP0492_CHR06_4076903		6	4076903	[C/T]
IRRI_SNP0493_CHR06_4641044		6	4641044	[T/C]
IRRI_SNP0494_CHR06_4757948		6	4757948	[G/A]
IRRI_SNP0496_CHR06_5195334		6	5195334	[C/G]
IRRI_SNP0497_CHR06_5707236		6	5707236	[A/G]



IRRI_SNP3044_MSU7_6_5760052_A-G	S5	6	5760052	[A/G]
IRRI_SNP3045_MSU7_6_5760918_C-A	S5	6	5760918	[C/A]
IRRI_SNP3046_MSU7_6_5761006_C-T	S5	6	5761006	[C/T]
IRRI_SNP3047_MSU7_6_5761511_C-T	S5	6	5761511	[C/T]
IRRI_SNP0498_CHR06_5894169		6	5894169	[T/C]
IRRI_SNP0499_CHR06_6093491		6	6093491	[T/C]
IRRI_SNP0500_CHR06_6508525		6	6508525	[A/G]
IRRI_SNP3048_MSU7_6_6752756_A-G	GT	6	6752756	[A/G]
IRRI_SNP1047_SSIIA-3B	Alk	6	6752888	[T/C]
IRRI_SNP0504_CHR06_7629011		6	7629011	[G/T]
IRRI_SNP0505_CHR06_8153078		6	8153078	[G/A]
IRRI_SNP0506_CHR06_8405025		6	8405025	[G/A]
IRRI_SNP3049_MSU7_6_9325033_C-A	Hd1	6	9325033	[C/A]
IRRI_SNP3051_MSU7_6_9338220_Indel	Hd1	6	9338220	[-/AAAG]
IRRI_SNP0509_CHR06_9836381		6	9836381	[A/C]
IRRI_SNP0510_CHR06_10006906		6	10006906	[A/G]
IRRI_SNP3052_MSU7_6_10388389_TT-AA	Pi2/Piz	6	10388389	[TT/AA]
IRRI_SNP3053_MSU7_6_10389352_A-T	Pi2/Piz	6	10389352	[A/T]
IRRI_SNP3054_MSU7_6_10389633_C-G	Pi2/Piz	6	10389633	[C/G]
IRRI_SNP0511_CHR06_10418594		6	10418594	[G/A]
IRRI_SNP0512_CHR06_10966744		6	10966744	[G/A]
IRRI_SNP0513_CHR06_11131403		6	11131403	[G/A]
IRRI_SNP0514_CHR06_11692013		6	11692013	[G/A]
IRRI_SNP0516_CHR06_12989252		6	12989252	[G/A]
IRRI_SNP0517_CHR06_13702743		6	13702743	[A/G]
IRRI_SNP0518_CHR06_14006726		6	14006726	[T/A]
IRRI_SNP0519_CHR06_14504992		6	14504992	[G/A]
IRRI_SNP3055_MSU7_6_15335402_G-A	BEIII	6	15335402	[G/A]
Q1879_IRRI_RiCAv5_SNP1073_MSU7_6_15335537_TTA-CTG	BE-III_basmati	6	15335537	[TTA/CTG]

IRRI_SNP3057_MSU7_6_15335573_A-C	BEIII	6	15335573	[A/C]
IRRI_SNP3059_MSU7_6_15340178_G-A	BEIII	6	15340178	[G/A]
IRRI_SNP3060_MSU7_6_15357538_A-T	BEIII	6	15357538	[A/T]
IRRI_SNP0520_CHR06_15358704		6	15358704	[G/C]
IRRI_SNP3061_MSU7_6_15361336_G-C	BEIII	6	15361339	[G/C]
IRRI_SNP0521_CHR06_15538142		6	15538142	[C/T]
IRRI_SNP0522_CHR06_16304717		6	16304717	[T/G]
IRRI_SNP0523_CHR06_16614854		6	16614854	[C/G]
IRRI_SNP0524_CHR06_16806254		6	16806254	[C/T]
IRRI_SNP0525_CHR06_17076390		6	17076390	[G/A]
Q1879_IRRI_RiCAv5_SNP1012_MSU7_6_18201345_G-C		6	18201345	[G/C]
Q1879_IRRI_RiCAv5_SNP1013_MSU7_6_18201372_T-C		6	18201372	[T/C]
Q1879_IRRI_RiCAv5_SNP1014_MSU7_6_18201392_G-T		6	18201392	[G/T]
IRRI_SNP0528_CHR06_19989362		6	19989362	[T/C]
IRRI_SNP0529_CHR06_20462203		6	20462203	[A/T]
IRRI_SNP0530_CHR06_21246829		6	21246829	[C/T]
IRRI_SNP0531_CHR06_21491695		6	21491695	[G/A]
IRRI_SNP0532_CHR06_21818860		6	21818860	[C/A]
IRRI_SNP0533_CHR06_22371041		6	22371041	[G/T]
IRRI_SNP3062_MSU7_6_23609519_A-C	qPSST6	6	23609519	[A/C]
IRRI_SNP3063_MSU7_6_23609712_G-A	qPSST6	6	23609712	[G/A]
IRRI_SNP0534_CHR06_24003856		6	24003856	[C/T]
IRRI_SNP1049_TGW6	TGW6	6	25093553	[-/G]
IRRI_SNP0539_CHR06_25277863		6	25277863	[T/C]
IRRI_SNP0541_CHR06_26139965		6	26139965	[G/A]
IRRI_SNP0543_CHR06_26938344		6	26938344	[A/G]
IRRI_SNP0544_CHR06_27275515		6	27275515	[G/A]
IRRI_SNP0545_CHR06_27364485		6	27364485	[G/A]
IRRI_SNP3064_MSU7_6_27480778_G-C	SCM2	6	27480778	[C/G]
IRRI_SNP0546_CHR06_27627615		6	27627615	[A/C]
IRRI_SNP0547_CHR06_27761109		6	27761109	[C/A]
IRRI_SNP1050_XA7_1	Xa7	6	27919547	[T/G]

IRRI_SNP1051_XA7_2	Xa7	6	28011120	[G/A]
IRRI_SNP0548_CHR06_28100960		6	28100960	[A/G]
IRRI_SNP1052_XA7_3	Xa7	6	28187269	[A/G]
IRRI_SNP0550_CHR06_28201282		6	28201282	[C/A]
IRRI_SNP0551_CHR06_28723997		6	28723997	[A/T]
IRRI_SNP0552_CHR06_29056693		6	29056693	[A/G]
IRRI_SNP0553_CHR06_29208264		6	29208264	[C/A]
IRRI_SNP0556_CHR06_30809492		6	30809492	[G/A]
IRRI_SNP3065_MSU7_6_30896555_C-T	BE1	6	30896555	[C/T]
IRRI_SNP3066_MSU7_6_30899986_T-C	BE1	6	30899986	[T/C]
IRRI_SNP0558_CHR07_514293		7	514293	[C/T]
IRRI_SNP0559_CHR07_770090		7	770090	[A/C]
IRRI_SNP0560_CHR07_940832		7	940832	[G/A]
IRRI_SNP0561_CHR07_1058718		7	1058718	[A/G]
IRRI_SNP0562_CHR07_1195861		7	1195861	[G/A]
IRRI_SNP0563_CHR07_1317761		7	1317761	[G/A]
IRRI_SNP0564_CHR07_1432567		7	1432567	[A/G]
IRRI_SNP0565_CHR07_1558687		7	1558687	[T/C]
IRRI_SNP0566_CHR07_1865306		7	1865306	[G/A]
IRRI_SNP0568_CHR07_2331583		7	2331583	[G/T]
Q1879_IRRI_RiCAv5_SNP1015_MSU7_7_3251665_T-A		7	3251665	[T/A]
Q1879_IRRI_RiCAv5_SNP1016_MSU7_7_3252030_C-T		7	3252030	[C/T]
Q1879_IRRI_RiCAv5_SNP1017_MSU7_7_3252167_T-C		7	3252167	[T/C]
IRRI_SNP0570_CHR07_4481788		7	4481788	[C/T]
IRRI_SNP0571_CHR07_5442983		7	5442983	[A/G]
IRRI_SNP0572_CHR07_5729056		7	5729056	[A/G]
IRRI_SNP0573_CHR07_6029723		7	6029723	[A/G]
Q1879_IRRI_RiCAv5_SNP1018_MSU7_7_6999938_T-G		7	6999938	[T/G]
Q1879_IRRI_RiCAv5_SNP1019_MSU7_7_7001295_T-G		7	7001295	[T/G]
Q1879_IRRI_RiCAv5_SNP1020_MSU7_7_7001424_T-C		7	7001424	[T/C]
Q1879_IRRI_RiCAv5_SNP1021_MSU7_7_7001504_T-C		7	7001504	[T/C]
IRRI_SNP0575_CHR07_8140854		7	8140854	[C/T]
IRRI_SNP0576_CHR07_8320872		7	8320872	[G/A]

IRRI_SNP0577_CHR07_8487862		7	8487862	[G/A]
IRRI_SNP3067_MSU7_7_9152479_C-G	Ghd7	7	9152479	[C/G]
IRRI_SNP1053_GHD7-4	Ghd7	7	9152659	[T/C]
IRRI_SNP3068_MSU7_7_9154664_A-C	Ghd7	7	9154664	[A/C]
Q1879_IRRI_RiCAv5_SNP1022_MSU7_7_10250011_A-G		7	10250011	[A/G]
Q1879_IRRI_RiCAv5_SNP1023_MSU7_7_10250635_A-G		7	10250635	[A/G]
Q1879_IRRI_RiCAv5_SNP1024_MSU7_7_10250777_C-A		7	10250777	[C/A]
IRRI_SNP0578_CHR07_11290725		7	11290725	[T/C]
IRRI_SNP3069_MSU7_7_12760070_A-C	OsHP	7	12760070	[C/A]
IRRI_SNP0579_CHR07_13639513		7	13639513	[C/A]
Q1879_IRRI_RiCAv5_SNP1025_MSU7_7_13851834_T-C		7	13851834	[T/C]
Q1879_IRRI_RiCAv5_SNP1026_MSU7_7_13852937_T-C		7	13852937	[T/C]
Q1879_IRRI_RiCAv5_SNP1027_MSU7_7_13853299_T-C		7	13853299	[T/C]
IRRI_SNP0580_CHR07_14729119		7	14729119	[G/A]
IRRI_SNP0581_CHR07_15340454		7	15340454	[G/A]
IRRI_SNP1105_IRGSP1_C07_16037152		7	16037152	[C/A]
Q1879_IRRI_RiCAv5_SNP1028_MSU7_7_16990034_T-C		7	16990034	[T/C]
Q1879_IRRI_RiCAv5_SNP1029_MSU7_7_16990660_G-A		7	16990660	[G/A]
Q1879_IRRI_RiCAv5_SNP1030_MSU7_7_16990705_A-G		7	16990705	[A/G]
IRRI_SNP0583_CHR07_17654305		7	17654305	[A/G]
IRRI_SNP0584_CHR07_17877865		7	17877865	[G/A]
IRRI_SNP0585_CHR07_18208798		7	18208798	[T/A]
IRRI_SNP0586_CHR07_18503646		7	18503646	[T/C]
IRRI_SNP0587_CHR07_18689329		7	18689329	[G/T]
IRRI_SNP0588_CHR07_18895399		7	18895399	[C/T]
IRRI_SNP1106_IRGSP1_C07_19408599		7	19408599	[G/A]
IRRI_SNP0590_CHR07_20514892		7	20514892	[T/G]
IRRI_SNP0592_CHR07_21135004		7	21135004	[C/T]

IRRI_SNP0593_CHR07_21539524		7	21539524	[C/T]
IRRI_SNP0596_CHR07_22277144		7	22277144	[G/A]
IRRI_SNP0599_CHR07_23087994		7	23087994	[A/G]
IRRI_SNP0600_CHR07_23535052		7	23535052	[T/G]
IRRI_SNP0601_CHR07_23785728		7	23785728	[G/T]
IRRI_SNP1057_AG3_2	AG3	7	24014394	[G/T]
IRRI_SNP0603_CHR07_24194267		7	24194267	[G/T]
IRRI_SNP0604_CHR07_24313817		7	24313817	[A/C]
IRRI_SNP0605_CHR07_24507157		7	24507157	[G/T]
IRRI_SNP3070_MSU7_7_24666398_A-G	SLG7	7	24666398	[A/G]
IRRI_SNP3071_MSU7_7_24667068_A-G	SLG7	7	24667068	[A/G]
IRRI_SNP0607_CHR07_25339609		7	25339609	[T/C]
IRRI_SNP0608_CHR07_25935801		7	25935801	[T/C]
Q1879_IRRI_RiCAv5_SNP1031_MSU7_7_26497395_A-G		7	26497395	[A/G]
Q1879_IRRI_RiCAv5_SNP1032_MSU7_7_26497962_A-C		7	26497962	[A/C]
Q1879_IRRI_RiCAv5_SNP1033_MSU7_7_26498540_A-T		7	26498540	[A/T]
IRRI_SNP0609_CHR07_27021585		7	27021585	[G/A]
IRRI_SNP0610_CHR07_27883987		7	27883987	[T/C]
IRRI_SNP3072_MSU7_7_28305040_A-G	FZP	7	28305040	[A/G]
IRRI_SNP0612_CHR07_28409912		7	28409912	[T/C]
IRRI_SNP0613_CHR07_29062014		7	29062014	[G/A]
IRRI_SNP1058_NAS3_2	NAS3	7	29281096	[C/A]
IRRI_SNP3074_MSU7_7_29617554_C-T	Hd2	7	29617554	[C/T]
IRRI_SNP3075_MSU7_7_29617569_C-G	Hd2	7	29617569	[C/G]
IRRI_SNP3076_MSU7_7_29623011_C-T	Hd2	7	29623011	[C/T]
IRRI_SNP3078_MSU7_7_29626599_A-G	Hd2	7	29626599	[A/G]
IRRI_SNP3079_MSU7_7_29627021_A-G	Hd2	7	29627021	[A/G]
IRRI_SNP3080_MSU7_7_29627240_T-G	Hd2	7	29627240	[T/G]
IRRI_SNP3081_MSU7_7_29627357_Indel	Hd2	7	29627357	[- /GAACGTTG]

IRRI_SNP3082_MSU7_7_29627590_A-C	Hd2	7	29627590	[A/C]
IRRI_SNP3083_MSU7_7_29627810_A-G	Hd2	7	29627810	[A/G]
IRRI_SNP0614_CHR08_213580		8	213580	[A/G]
IRRI_SNP0617_CHR08_811201		8	811201	[G/A]
IRRI_SNP0618_CHR08_1088007		8	1088007	[G/A]
IRRI_SNP0619_CHR08_1198055		8	1198055	[C/T]
IRRI_SNP0620_CHR08_1836529		8	1836529	[T/G]
IRRI_SNP0621_CHR08_2208785		8	2208785	[G/C]
IRRI_SNP0622_CHR08_2673447		8	2673447	[G/A]
IRRI_SNP0623_CHR08_2878924		8	2878924	[G/C]
IRRI_SNP0624_CHR08_3212821		8	3212821	[T/C]
IRRI_SNP0625_CHR08_3365127		8	3365127	[A/G]
IRRI_SNP0626_CHR08_3682006		8	3682006	[C/T]
IRRI_SNP0627_CHR08_3866523		8	3866523	[A/G]
IRRI_SNP0628_CHR08_4190544		8	4190544	[T/C]
IRRI_SNP1060_DTH8-IR24	DTH8	8	4334417	[T/-]
IRRI_SNP0629_CHR08_4511882		8	4511882	[T/C]
IRRI_SNP0630_CHR08_4853081		8	4853081	[C/T]
IRRI_SNP3084_MSU7_8_5140824_C-T	GPT1	8	5140824	[C/T]
IRRI_SNP3085_MSU7_8_5140870_G-A	GPT1	8	5140870	[G/A]
IRRI_SNP1061_GM4_1	Gm4(t)	8	5353685	[A/G]
IRRI_SNP0632_CHR08_5394572		8	5394572	[T/C]
IRRI_SNP1063_GM4_3	Gm4(t)	8	5466566	[A/G]
IRRI_SNP1064_GM4_4	Gm4(t)	8	5591019	[C/G]
IRRI_SNP0633_CHR08_5634800		8	5634800	[C/T]
IRRI_SNP1065_PI33_1	Pi33	8	6114723	[T/G]
IRRI_SNP0634_CHR08_6269190		8	6269190	[T/A]
IRRI_SNP1066_PI33_2	Pi33	8	6713163	[T/C]
IRRI_SNP1067_PI33_3	Pi33	8	7470867	[T/G]
IRRI_SNP0636_CHR08_7854002		8	7854002	[G/T]
IRRI_SNP0637_CHR08_7950638		8	7950638	[A/T]
IRRI_SNP0638_CHR08_8386031		8	8386031	[C/T]
IRRI_SNP0639_CHR08_8580913		8	8580913	[A/G]
IRRI_SNP0641_CHR08_8897653		8	8897653	[T/C]
IRRI_SNP0642_CHR08_9289473		8	9289473	[G/T]
IRRI_SNP0644_CHR08_9769758		8	9769758	[T/C]
IRRI_SNP0646_CHR08_10105233		8	10105233	[T/C]

IRRI_SNP0647_CHR08_10188041		8	10188041	[C/T]
IRRI_SNP0648_CHR08_10358484		8	10358484	[G/A]
IRRI_SNP1125_IRGSP1_C08_10441781		8	10441781	[C/T]
IRRI_SNP0649_CHR08_11248949		8	11248949	[G/A]
IRRI_SNP0651_CHR08_11565636		8	11565636	[C/T]
IRRI_SNP0652_CHR08_11727432		8	11727432	[C/A]
IRRI_SNP0653_CHR08_11888511		8	11888511	[A/G]
IRRI_SNP0654_CHR08_12145970		8	12145970	[T/G]
IRRI_SNP0655_CHR08_12421145		8	12421145	[A/G]
IRRI_SNP0656_CHR08_12723619		8	12723619	[A/G]
IRRI_SNP0657_CHR08_13017690		8	13017690	[A/G]
IRRI_SNP0658_CHR08_13354771		8	13354771	[C/T]
IRRI_SNP0659_CHR08_13741571		8	13741571	[T/C]
IRRI_SNP0660_CHR08_13950899		8	13950899	[C/T]
IRRI_SNP0661_CHR08_14184612		8	14184612	[C/T]
IRRI_SNP0662_CHR08_14676962		8	14676962	[G/A]
IRRI_SNP0663_CHR08_14799421		8	14799421	[A/G]
IRRI_SNP0664_CHR08_14986111		8	14986111	[G/A]
IRRI_SNP0665_CHR08_15439243		8	15439243	[C/T]
IRRI_SNP0667_CHR08_16618829		8	16618829	[C/A]
IRRI_SNP0668_CHR08_16799413		8	16799413	[G/A]
IRRI_SNP0670_CHR08_17319167		8	17319167	[A/C]
IRRI_SNP0671_CHR08_17618902		8	17618902	[C/T]
IRRI_SNP0672_CHR08_18108496		8	18108496	[A/G]
IRRI_SNP0673_CHR08_18221884		8	18221884	[C/T]
IRRI_SNP0674_CHR08_18552226		8	18552226	[A/G]
IRRI_SNP0676_CHR08_18719247		8	18719247	[C/T]
IRRI_SNP0677_CHR08_19351882		8	19351882	[G/A]
IRRI_SNP0678_CHR08_19833397		8	19833397	[C/A]
IRRI_SNP3086_MSU7_8_20374951_T-G	fgr-1	8	20374951	[T/G]
IRRI_SNP3087_Os08g0424500_BADH2	fgr-1	8	20382857	[TATAT/AAA AGATTATGG C]
IRRI_SNP0681_CHR08_21253397		8	21253397	[C/T]
IRRI_SNP0682_CHR08_21667240		8	21667240	[T/C]
IRRI_SNP0683_CHR08_22252502		8	22252502	[C/A]
IRRI_SNP0684_CHR08_22776414		8	22776414	[G/A]
IRRI_SNP0685_CHR08_23713744		8	23713744	[A/T]
IRRI_SNP0686_CHR08_24125399		8	24125399	[A/G]

IRRI_SNP0687_CHR08_24205833		8	24205833	[G/A]
IRRI_SNP0688_CHR08_24753844		8	24753844	[T/C]
IRRI_SNP1126_IRGSP1_C08_24853648		8	24853648	[A/G]
IRRI_SNP1068_WFP1	WFP	8	25275168	[T/G]
IRRI_SNP0691_CHR08_25467581		8	25467581	[T/A]
IRRI_SNP0692_CHR08_25757847		8	25757847	[T/G]
IRRI_SNP1069_PGWC8-2	PGC8-2	8	25894130	[G/A]
Q1879_IRRI_RiCAv5_SNP1074_MSU7_8_26501458_C-T	GW8-Bas01	8	26501458	[C/T]
Q1879_IRRI_RiCAv5_SNP1075_MSU7_8_26505566_Indel	GW8-Amol3	8	26505566	[CT/-]
IRRI_SNP0694_CHR08_26709228		8	26709228	[A/G]
IRRI_SNP1091_XA13_2	xa13	8	26726585	[T/C]
IRRI_SNP1090_XA13_1	xa13	8	26727222	[C/G]
IRRI_SNP0696_CHR08_26898822		8	26898822	[C/T]
IRRI_SNP0697_CHR08_27039158		8	27039158	[C/A]
IRRI_SNP1127_IRGSP1_C08_27133000		8	27133000	[C/T]
IRRI_SNP0698_CHR08_27282645		8	27282645	[G/T]
IRRI_SNP0700_CHR08_28125942		8	28125942	[C/T]
IRRI_SNP0701_CHR09_148594		9	148594	[T/C]
IRRI_SNP0702_CHR09_496013		9	496013	[A/C]
IRRI_SNP0703_CHR09_591085		9	591085	[A/G]
IRRI_SNP0704_CHR09_1098249		9	1098249	[C/T]
IRRI_SNP0705_CHR09_1467951		9	1467951	[A/G]
IRRI_SNP0706_CHR09_2096551		9	2096551	[C/T]
IRRI_SNP0707_CHR09_2298381		9	2298381	[T/C]
IRRI_SNP0708_CHR09_2380203		9	2380203	[C/T]
IRRI_SNP0709_CHR09_2930321		9	2930321	[T/C]
IRRI_SNP0710_CHR09_3357568		9	3357568	[A/G]
IRRI_SNP0711_CHR09_3603443		9	3603443	[T/C]
IRRI_SNP0713_CHR09_4136552		9	4136552	[A/G]
IRRI_SNP0717_CHR09_5305969		9	5305969	[A/G]
IRRI_SNP0718_CHR09_5812738		9	5812738	[C/T]
IRRI_SNP0719_CHR09_5922125		9	5922125	[T/C]
IRRI_SNP0720_CHR09_6093984		9	6093984	[T/C]
IRRI_SNP1128_IRGSP1_C09_6205891		9	6205891	[A/G]
IRRI_SNP0721_CHR09_6252407		9	6252407	[G/A]
IRRI_SNP3090_MSU7_9_6374718_A-G	Sub1	9	6374718	[A/G]



IRRI_SNP3091_MSU7_9_6605118_T-G	Sub1	9	6605118	[T/G]
IRRI_SNP0724_CHR09_6796269		9	6796269	[C/T]
IRRI_SNP0725_CHR09_6913547		9	6913547	[G/C]
IRRI_SNP0727_CHR09_7280339		9	7280339	[T/C]
IRRI_SNP0730_CHR09_8511436		9	8511436	[A/G]
IRRI_SNP0732_CHR09_9252104		9	9252104	[G/C]
IRRI_SNP0733_CHR09_9626056		9	9626056	[A/G]
IRRI_SNP3092_MSU7_9_9670039_C-T	Pii	9	9670039	[C/T]
IRRI_SNP3093_MSU7_9_9672424_T-C	Pii	9	9672424	[T/C]
IRRI_SNP3094_MSU7_9_9673187_G-C	Pii	9	9673187	[G/C]
IRRI_SNP0735_CHR09_9945591		9	9945591	[C/T]
IRRI_SNP0736_CHR09_10119114		9	10119114	[G/A]
IRRI_SNP0737_CHR09_10324014		9	10324014	[G/A]
IRRI_SNP0738_CHR09_10757351		9	10757351	[A/G]
IRRI_SNP0740_CHR09_11237877		9	11237877	[C/T]
IRRI_SNP0742_CHR09_11746684		9	11746684	[A/G]
IRRI_SNP0745_CHR09_12029697		9	12029697	[C/T]
IRRI_SNP1070_AG1_1	AG1	9	12131957	[G/A]
IRRI_SNP3095_MSU7_9_12269980_A-C	AG1	9	12269980	[A/C]
IRRI_SNP3096_MSU7_9_12280726_A-G	AG1	9	12280726	[A/G]
IRRI_SNP0746_CHR09_12326525		9	12326525	[A/G]
Q1879_IRRI_RiCAv5_SNP1034_MSU7_9_13187266_G-A		9	13187266	[G/A]
Q1879_IRRI_RiCAv5_SNP1035_MSU7_9_13187420_A-C		9	13187420	[A/C]
Q1879_IRRI_RiCAv5_SNP1076_MSU7_9_14567436_Indel	Tb2-01	9	14567436	[CCG/-]
IRRI_SNP0747_CHR09_14920092		9	14920092	[A/G]
IRRI_SNP0748_CHR09_15322775		9	15322775	[A/G]
IRRI_SNP0749_CHR09_15429734		9	15429734	[T/G]
IRRI_SNP3129_MSU7_9_16308325_Indel	Dro1	9	16308325	[T/C]
IRRI_SNP1073_DEP1-2	DEP1	9	16415265	[C/-]
IRRI_SNP0750_CHR09_16616509		9	16616509	[C/T]
IRRI_SNP3098_MSU7_9_16767260_T-C	GS9	9	16767260	[T/C]

Q1879_IRRI_RiCAv5_SNP1077_MSU7_9_16767396_T-G	GS9-01	9	16767396	[T/G]
IRRI_SNP0751_CHR09_17213519		9	17213519	[C/T]
IRRI_SNP0752_CHR09_17447522		9	17447522	[G/A]
IRRI_SNP0753_CHR09_17707080		9	17707080	[G/A]
Q1879_IRRI_RiCAv5_SNP1036_MSU7_9_18356460_C-A		9	18356460	[C/A]
Q1879_IRRI_RiCAv5_SNP1037_MSU7_9_18366555_A-C		9	18366555	[A/C]
IRRI_SNP0754_CHR09_19322095		9	19322095	[G/A]
IRRI_SNP0755_CHR09_19683788		9	19683788	[C/T]
IRRI_SNP0756_CHR09_20138174		9	20138174	[A/T]
IRRI_SNP0757_CHR09_20682114		9	20682114	[A/C]
IRRI_SNP0758_CHR09_21148430		9	21148430	[A/G]
IRRI_SNP0759_CHR09_21348882		9	21348882	[G/A]
IRRI_SNP0760_CHR09_21612758		9	21612758	[T/C]
IRRI_SNP0761_CHR09_21667022		9	21667022	[G/A]
IRRI_SNP0762_CHR09_21885499		9	21885499	[T/C]
IRRI_SNP0763_CHR09_21896910		9	21896910	[C/T]
IRRI_SNP0766_CHR10_790044		10	790044	[G/C]
IRRI_SNP0768_CHR10_1562931		10	1562931	[T/A]
IRRI_SNP0770_CHR10_2129424		10	2129424	[T/C]
IRRI_SNP0771_CHR10_2258418		10	2258418	[G/C]
Q1879_IRRI_RiCAv5_SNP1038_MSU7_10_2506783_G-A		10	2506783	[G/A]
Q1879_IRRI_RiCAv5_SNP1039_MSU7_10_2506985_C-G		10	2506985	[C/G]
IRRI_SNP0772_CHR10_3358419		10	3358419	[T/C]
IRRI_SNP0773_CHR10_3400212		10	3400212	[C/T]
IRRI_SNP0774_CHR10_4019997		10	4019997	[C/T]
IRRI_SNP0775_CHR10_4281052		10	4281052	[C/T]
IRRI_SNP0776_CHR10_5257224		10	5257224	[C/T]
IRRI_SNP0777_CHR10_5488256		10	5488256	[T/C]
IRRI_SNP0778_CHR10_5826161		10	5826161	[G/T]
IRRI_SNP0779_CHR10_6648158		10	6648158	[C/T]
IRRI_SNP0780_CHR10_6798684		10	6798684	[T/C]
IRRI_SNP0782_CHR10_7397104		10	7397104	[T/C]
IRRI_SNP0783_CHR10_7530092		10	7530092	[G/A]
IRRI_SNP0784_CHR10_8404652		10	8404652	[T/C]
IRRI_SNP0785_CHR10_8795028		10	8795028	[C/T]
IRRI_SNP0786_CHR10_9095431		10	9095431	[C/T]

Q1879_IRRI_RiCAv5_SNP1040_MSU7_10_9747465_A-G		10	9747465	[A/G]
Q1879_IRRI_RiCAv5_SNP1041_MSU7_10_9747741_T-C		10	9747741	[T/C]
Q1879_IRRI_RiCAv5_SNP1042_MSU7_10_9747921_T-C		10	9747921	[T/C]
IRRI_SNP0788_CHR10_10476379		10	10476379	[C/A]
IRRI_SNP0789_CHR10_10755400		10	10755400	[C/T]
IRRI_SNP0791_CHR10_11195773		10	11195773	[A/C]
IRRI_SNP0793_CHR10_11664750		10	11664750	[G/A]
IRRI_SNP0794_CHR10_11918679		10	11918679	[T/G]
IRRI_SNP1130_IRGSP1_C10_12035291		10	12035291	[G/A]
IRRI_SNP0795_CHR10_12145295		10	12145295	[C/T]
IRRI_SNP0796_CHR10_12658334		10	12658334	[A/G]
IRRI_SNP0797_CHR10_12780901		10	12780901	[A/G]
IRRI_SNP0799_CHR10_13778768		10	13778768	[A/G]
IRRI_SNP0800_CHR10_14086902		10	14086902	[G/A]
IRRI_SNP0801_CHR10_14640458		10	14640458	[G/A]
IRRI_SNP0802_CHR10_14777004		10	14777004	[A/G]
Q1879_IRRI_RiCAv5_SNP1043_MSU7_10_15338817_T-C		10	15338817	[T/C]
Q1879_IRRI_RiCAv5_SNP1044_MSU7_10_15340087_G-A		10	15340087	[G/A]
IRRI_SNP0803_CHR10_15824876		10	15824876	[G/A]
IRRI_SNP0804_CHR10_16229530		10	16229530	[T/G]
IRRI_SNP0805_CHR10_16742656		10	16742656	[G/A]
IRRI_SNP3100_MSU7_10_17077589_G-T	ehd1	10	17077589	[C/T]
IRRI_SNP0806_CHR10_17397576		10	17397576	[A/G]
IRRI_SNP0807_CHR10_18098744		10	18098744	[G/A]
IRRI_SNP0808_CHR10_18302926		10	18302926	[G/A]
IRRI_SNP0809_CHR10_18583084		10	18583084	[T/G]
IRRI_SNP3102_MSU7_10_18835815_C-A	Rf4	10	18835815	[C/A]
IRRI_SNP1099_RF4	Rf4	10	18836046	[C/T]
IRRI_SNP0810_CHR10_18852690		10	18852690	[T/C]
IRRI_SNP0811_CHR10_19025553		10	19025553	[A/G]
IRRI_SNP0812_CHR10_19217152		10	19217152	[G/A]
IRRI_SNP3103_MSU7_10_19330765_T-C	qCST10	10	19330765	[T/C]
IRRI_SNP0813_CHR10_19378143		10	19378143	[A/C]

IRRI_SNP0814_CHR10_19421322		10	19421322	[C/T]
IRRI_SNP3105_MSU7_10_19463063_C-T	GFR1	10	19463063	[C/T]
IRRI_SNP3106_MSU7_10_19463253_T-C	GFR1	10	19463253	[T/C]
IRRI_SNP3107_MSU7_10_19463411_C-T	GFR1	10	19463411	[C/T]
IRRI_SNP0815_CHR10_19678268		10	19678268	[T/G]
IRRI_SNP0816_CHR10_19899160		10	19899160	[G/A]
Q1879_IRRI_RiCAv5_SNP1045_MSU7_10_20763306_A-G		10	20763306	[A/G]
Q1879_IRRI_RiCAv5_SNP1046_MSU7_10_20862159_T-C		10	20862159	[T/C]
IRRI_SNP0819_CHR10_21338558		10	21338558	[T/C]
IRRI_SNP0823_CHR11_256688		11	256688	[T/G]
IRRI_SNP0824_CHR11_650148		11	650148	[G/T]
Q1879_IRRI_RiCAv5_SNP1047_MSU7_11_1546850_G-A		11	1546850	[G/A]
IRRI_SNP0826_CHR11_2875870		11	2875870	[G/T]
IRRI_SNP0828_CHR11_3802930		11	3802930	[A/G]
IRRI_SNP0830_CHR11_4783262		11	4783262	[T/C]
IRRI_SNP0831_CHR11_5615885		11	5615885	[A/G]
IRRI_SNP0832_CHR11_5852961		11	5852961	[G/A]
IRRI_SNP0833_CHR11_6088667		11	6088667	[C/T]
IRRI_SNP0834_CHR11_6472086		11	6472086	[C/A]
IRRI_SNP0838_CHR11_7542820		11	7542820	[C/T]
IRRI_SNP0839_CHR11_8083891		11	8083891	[A/G]
IRRI_SNP0840_CHR11_8247118		11	8247118	[T/C]
IRRI_SNP0841_CHR11_8601502		11	8601502	[A/C]
IRRI_SNP0842_CHR11_8786491		11	8786491	[A/G]
IRRI_SNP0843_CHR11_9183139		11	9183139	[G/A]
IRRI_SNP0845_CHR11_9561302		11	9561302	[G/T]
IRRI_SNP0847_CHR11_10741559		11	10741559	[T/G]
IRRI_SNP3108_MSU7_12_10833409_C-T	Ptr	11	10833409	[C/T]
IRRI_SNP0851_CHR11_12583306		11	12583306	[G/A]
IRRI_SNP0852_CHR11_13020856		11	13020856	[C/A]
Q1879_IRRI_RiCAv5_SNP1048_MSU7_11_13751061_A-G		11	13751061	[A/G]
Q1879_IRRI_RiCAv5_SNP1049_MSU7_11_13751554_A-G		11	13751554	[A/G]

Q1879_IRRI_RiCAv5_SNP1050_MSU7_11_13751668_G-A		11	13751668	[G/A]
IRRI_SNP0854_CHR11_14737362		11	14737362	[A/T]
IRRI_SNP0856_CHR11_15447862		11	15447862	[C/T]
IRRI_SNP0857_CHR11_15638505		11	15638505	[T/C]
IRRI_SNP0859_CHR11_16284824		11	16284824	[A/C]
IRRI_SNP0861_CHR11_17047762		11	17047762	[T/C]
IRRI_SNP0862_CHR11_17292835		11	17292835	[G/T]
IRRI_SNP0863_CHR11_17489208		11	17489208	[C/G]
IRRI_SNP0865_CHR11_17908099		11	17908099	[A/G]
IRRI_SNP1074_STV11	STV11	11	17985707	[T/A]
IRRI_SNP1092_SWEET14_PRO1	Sweet14	11	18174499	[C/G]
IRRI_SNP0868_CHR11_18936070		11	18936070	[A/G]
IRRI_SNP0869_CHR11_18993024		11	18993024	[T/C]
IRRI_SNP0870_CHR11_19648542		11	19648542	[T/A]
IRRI_SNP0871_CHR11_19898835		11	19898835	[T/G]
IRRI_SNP0872_CHR11_20074439		11	20074439	[T/C]
IRRI_SNP0875_CHR11_20647651		11	20647651	[G/A]
IRRI_SNP0876_CHR11_20837771		11	20837771	[T/C]
IRRI_SNP0877_CHR11_21190115		11	21190115	[T/C]
IRRI_SNP0879_CHR11_21446099		11	21446099	[C/T]
IRRI_SNP0880_CHR11_21689303		11	21689303	[G/A]
IRRI_SNP0881_CHR11_21691103		11	21691103	[T/C]
IRRI_SNP0882_CHR11_22044151		11	22044151	[G/T]
IRRI_SNP3133_MSU7_11_22141523_A-G	Xa23	11	22141523	[A/G]
IRRI_SNP3132_MSU7_11_22225387_T-A	Xa23	11	22225387	[T/A]
IRRI_SNP1095_XA23_2	Xa23	11	22225882	[G/A]
IRRI_SNP1131_IRGSP1_C11_22303236		11	22303236	[A/G]
IRRI_SNP0885_CHR11_22453819		11	22453819	[C/T]
IRRI_SNP0887_CHR11_22912310		11	22912310	[C/A]
IRRI_SNP0890_CHR11_23083051		11	23083051	[C/A]
IRRI_SNP0891_CHR11_23231455		11	23231455	[G/A]
IRRI_SNP1132_IRGSP1_C11_23731426		11	23731426	[G/A]
IRRI_SNP0893_CHR11_24086107		11	24086107	[G/T]
IRRI_SNP0894_CHR11_24100905		11	24100905	[T/C]
IRRI_SNP0897_CHR11_25135188		11	25135188	[A/G]
IRRI_SNP1096_PI54_5	Pi54	11	25263712	[G/A]

IRRI_SNP3131_MSU7_11_25264164_C-T	Pi54	11	25264164	[C/T]
IRRI_SNP0899_CHR11_25432067		11	25432067	[A/G]
IRRI_SNP0901_CHR11_25811598		11	25811598	[T/C]
IRRI_SNP0902_CHR11_26300403		11	26300403	[A/G]
IRRI_SNP3109_MSU7_11_26377995_C-T	RYMV3	11	26377995	[C/T]
IRRI_SNP3110_MSU7_11_26378164_C-G	RYMV3	11	26378164	[C/G]
Q1879_IRRI_RiCAv5_SNP1051_MSU7_11_26980096_G-T		11	26980096	[G/T]
Q1879_IRRI_RiCAv5_SNP1052_MSU7_11_26980115_C-T		11	26980115	[C/T]
Q1879_IRRI_RiCAv5_SNP1053_MSU7_11_26980449_G-A		11	26980449	[G/A]
IRRI_SNP1134_IRGSP1_C11_27391141		11	27391141	[A/T]
IRRI_SNP0904_CHR11_27603799		11	27603799	[A/C]
IRRI_SNP0905_CHR11_27817978		11	27817978	[T/C]
IRRI_SNP3111_MSU7_11_27975815_TA-CG	Pik	11	27975815	[TA/CG]
IRRI_SNP3112_MSU7_11_27977546_T-G	Pik	11	27975816	[T/G]
IRRI_SNP3113_MSU7_11_27979080_G-T	Pik	11	27975817	[G/T]
IRRI_SNP3115_MSU7_11_27980276_C-G	Pik	11	27975818	[C/G]
IRRI_SNP3116_MSU7_11_27980673_C-T	Pik	11	27975819	[C/T]
IRRI_SNP3117_MSU7_11_27981906_C-T	Pik	11	27975820	[C/T]
IRRI_SNP3118_MSU7_11_27982970_C-G	Pik	11	27975821	[C/G]
IRRI_SNP3121_MSU7_11_27985429_TT-GC	Pik	11	27975822	[TT/GC]
IRRI_SNP1084_PIK_2	Pik	11	27982800	[C/G]
Q1879_IRRI_RiCAv5_SNP1078_MSU7_11_27983574_C-T	Pik vs. Pikm group. = Katy_1	11	27983574	[C/T]
Q1879_IRRI_RiCAv5_SNP1079_MSU7_11_27984825_A-G	Pikh canonical diagnostic	11	27984825	[A/G]

IRRI_SNP1088_PIKH_1	Pik	11	27987687	[T/C]
IRRI_SNP0906_CHR11_27994133		11	27994133	[C/T]
IRRI_SNP1077_XA26_1	Xa26	11	28246867	[C/-]
IRRI_SNP0907_CHR11_28625316		11	28625316	[T/G]
IRRI_SNP1078_XA4_2	Xa4	11	28704769	[T/G]
IRRI_SNP0909_CHR12_350921		12	350921	[C/A]
Q1879_IRRI_RiCAv5_SNP1054_MSU7_12_1831895_G-C		12	1831895	[G/C]
Q1879_IRRI_RiCAv5_SNP1055_MSU7_12_2322847_G-A		12	2322847	[G/A]
IRRI_SNP0910_CHR12_2324105		12	2324105	[T/C]
IRRI_SNP0911_CHR12_2651274		12	2651274	[A/G]
IRRI_SNP0912_CHR12_3086293		12	3086293	[G/T]
IRRI_SNP0913_CHR12_3217524		12	3217524	[A/G]
IRRI_SNP0914_CHR12_3285571		12	3285571	[C/T]
IRRI_SNP0915_CHR12_3544726		12	3544726	[T/G]
IRRI_SNP0918_CHR12_4141420		12	4141420	[T/C]
IRRI_SNP0919_CHR12_4433511		12	4433511	[A/G]
IRRI_SNP0920_CHR12_4554103		12	4554103	[A/G]
IRRI_SNP0921_CHR12_5041059		12	5041059	[G/T]
Q1879_IRRI_RiCAv5_SNP1056_MSU7_12_6760735_G-C		12	6760735	[G/C]
Q1879_IRRI_RiCAv5_SNP1057_MSU7_12_6761195_C-T		12	6761195	[C/T]
IRRI_SNP0922_CHR12_7114076		12	7114076	[G/T]
IRRI_SNP0924_CHR12_7445812		12	7445812	[T/G]
IRRI_SNP0925_CHR12_7917509		12	7917509	[A/G]
IRRI_SNP0926_CHR12_8070782		12	8070782	[C/A]
IRRI_SNP0928_CHR12_8794364		12	8794364	[A/C]
IRRI_SNP0929_CHR12_8913217		12	8913217	[A/G]
IRRI_SNP0930_CHR12_9120135		12	9120135	[G/A]
IRRI_SNP0932_CHR12_10051752		12	10051752	[G/T]
IRRI_SNP0933_CHR12_10469146		12	10469146	[G/A]
IRRI_SNP0934_CHR12_10509878		12	10509878	[A/G]
IRRI_SNP3122_MSU7_12_10607554_C-A	Pita	12	10607554	[C/A]
IRRI_SNP3123_MSU7_12_10830674_G-A	Ptr	12	10830674	[G/A]
IRRI_SNP3124_MSU7_12_10833370_T-A	Ptr	12	10833370	[TG/AA]
IRRI_SNP3125_MSU7_12_10833386_TG-AA	Ptr	12	10833386	[TG/AA]

IRRI_SNP0936_CHR12_11257069		12	11257069	[G/A]
IRRI_SNP0937_CHR12_11720114		12	11720114	[T/C]
IRRI_SNP0938_CHR12_12075622		12	12075622	[T/C]
IRRI_SNP0941_CHR12_13248798		12	13248798	[A/G]
IRRI_SNP0942_CHR12_13764151		12	13764151	[G/T]
IRRI_SNP0944_CHR12_14060565		12	14060565	[C/T]
IRRI_SNP0945_CHR12_14489210		12	14489210	[C/A]
IRRI_SNP0946_CHR12_14599449		12	14599449	[C/T]
IRRI_SNP0947_CHR12_14835375		12	14835375	[T/C]
IRRI_SNP0948_CHR12_14936674		12	14936674	[G/A]
IRRI_SNP0949_CHR12_15140411		12	15140411	[A/T]
IRRI_SNP0950_CHR12_15342492		12	15342492	[T/C]
IRRI_SNP0953_CHR12_15960393		12	15960393	[A/G]
IRRI_SNP1136_IRGSP1_C12_15966147		12	15966147	[T/G]
IRRI_SNP0954_CHR12_16287347		12	16287347	[G/T]
IRRI_SNP0955_CHR12_16591134		12	16591134	[T/C]
IRRI_SNP0956_CHR12_16990670		12	16990670	[C/A]
IRRI_SNP1081_DTY12-1_2	DTY12.1	12	17396363	[A/G]
IRRI_SNP0957_CHR12_17443323		12	17443323	[T/C]
IRRI_SNP0958_CHR12_17571574		12	17571574	[A/G]
IRRI_SNP0960_CHR12_18003414		12	18003414	[T/C]
IRRI_SNP0963_CHR12_18881059		12	18881059	[T/A]
IRRI_SNP0965_CHR12_19522102		12	19522102	[G/A]
IRRI_SNP0967_CHR12_19829588		12	19829588	[C/T]
Q1879_IRRI_RiCAv5_SNP1058_MSU7_12_20802400_A-C		12	20802400	[A/C]
Q1879_IRRI_RiCAv5_SNP1059_MSU7_12_20802697_T-C		12	20802697	[T/C]
Q1879_IRRI_RiCAv5_SNP1060_MSU7_12_20803540_C-T		12	20803540	[C/T]
Q1879_IRRI_RiCAv5_SNP1061_MSU7_12_20805064_C-T		12	20805064	[C/T]
IRRI_SNP0968_CHR12_21446549		12	21446549	[T/G]
IRRI_SNP0969_CHR12_21731719		12	21731719	[A/T]
IRRI_SNP0972_CHR12_22600624		12	22600624	[A/G]
IRRI_SNP3128_MSU7_12_22885896_T-C	Bph9	12	22885896	[T/C]
IRRI_SNP1083_BPH9_2	Bph9	12	22886030	[A/C]
IRRI_SNP0974_CHR12_23066809		12	23066809	[A/G]
IRRI_SNP0975_CHR12_23108164		12	23108164	[T/C]
IRRI_SNP0977_CHR12_23387696		12	23387696	[A/G]



IRRI_SNP0978_CHR12_23828922		12	23828922	[T/C]
IRRI_SNP0981_CHR12_24317071		12	24317071	[T/C]
IRRI_SNP0982_CHR12_24417433		12	24417433	[T/C]
IRRI_SNP0984_CHR12_24913573		12	24913573	[T/C]
Q1879_IRRI_RiCAv5_SNP1063_MSU7_12_25410494_A-G	Snorkel	12	25410494	[A/G]
Q1879_IRRI_RiCAv5_SNP1062_MSU7_12_25416598_T-G	Snorkel	12	25416598	[T/G]
IRRI_SNP0985_CHR12_25490919		12	25490919	[C/A]
IRRI_SNP0986_CHR12_25756224		12	25756224	[G/A]
IRRI_SNP0987_CHR12_26259494		12	26259494	[G/T]
IRRI_SNP0988_CHR12_26463351		12	26463351	[A/G]
IRRI_SNP0990_CHR12_27023424		12	27023424	[G/T]
IRRI_SNP0991_CHR12_27304351		12	27304351	[G/T]
IRRI_SNP1101_WA-CMS	WA-CMS	mt	0	[-/TGTAG]