

## LIST OF TRAIT-BASED SNP MARKERS

SNP Provider ID	Customer Marker ID	Trait	Gene/QTL	Chromosome	Position	Favourable allele	Unfavourable allele
snpOS00459	AG3_1	Abiotic stress - Anaerobic germination	qAG3	7	23.2	C	T
snpOS00460	AG3_2	Abiotic stress - Anaerobic germination	qAG3	7	24	G	T
snpOS00473	AG1_1	Abiotic stress - Anaerobic germination	qAG1	9	12.1	G	A
snpOS00474	AG1_2	Abiotic stress - Anaerobic germination	qAG1	9	12.3	C	T
snpOS00403	SCT1_1	Abiotic stress - Cold - Seedling	SCT1	1	39.1	C	T
snpOS00404	SCT1_2	Abiotic stress - Cold - Seedling	SCT1	1	39.2	A	C
snpOS00406	SCT1_3	Abiotic stress - Cold - Seedling	SCT1	1	39.5	T	G
snpOS00407	SCT1_4	Abiotic stress - Cold - Seedling	SCT1	1	39.5	C	T
snpOS00436	COLD1-jap	Abiotic stress - Cold - Seedling	COLD1	4	30.3	T	A
snpOS00075	MSU7_2_9600368_[C/T]	Abiotic stress - Drought - reproductive	DTY2.1	2	9.6	T	C
snpOS00076	MSU7_2_10003379_[C/A]	Abiotic stress - Drought - reproductive	DTY2.1	2	10	A	C
snpOS00077	MSU7_2_10183246_[A/G]	Abiotic stress - Drought - reproductive	DTY2.1	2	10.1	G	A
snpOS00078	S2_10205033	Abiotic stress - Drought - reproductive	DTY2.1	2	10.2	C	A
snpOS00079	MSU7_2_10747561_[A/G]	Abiotic stress - Drought - reproductive	DTY2.1	2	10.7	G	A
snpOS00080	MSU7_2_11211992_[T/C]	Abiotic stress - Drought - reproductive	DTY2.1	2	11.2	C	T
snpOS00081	MSU7_2_12020819_[C/T]	Abiotic stress - Drought - reproductive	DTY2.1	2	12	T	C
snpOS00085	MSU7_3_30047928_[G/A]	Abiotic stress - Drought - reproductive	DTY3.1	3	30	A	G
snpOS00086	MSU7_3_30742072_[T/G]	Abiotic stress - Drought - reproductive	DTY3.1	3	30.7	G	T
snpOS00087	MSU7_3_31008659_[C/T]	Abiotic stress - Drought - reproductive	DTY3.1	3	31	C	T
snpOS00088	MSU7_3_31041777_[A/T]	Abiotic stress - Drought - reproductive	DTY3.1	3	31	T	A
snpOS00089	MSU7_3_31323659_[C/G]	Abiotic stress - Drought - reproductive	DTY3.1	3	31.3	C	G
snpOS00400	DTY1-1_1	Abiotic stress - Drought - reproductive	DTY1.1	1	38	G	C
snpOS00402	DTY1-1_3	Abiotic stress - Drought - reproductive	DTY1.1	1	39	A	G
snpOS00408	DTY1-1_4	Abiotic stress - Drought - reproductive	DTY1.1	1	39.6	G	T
snpOS00412	DTY2-2_1	Abiotic stress - Drought - reproductive	qDTY2.2	2	1	C	A
snpOS00413	DTY2-2_2	Abiotic stress - Drought - reproductive	qDTY2.2	2	2.5	T	A
snpOS00414	DTY2-2_3	Abiotic stress - Drought - reproductive	qDTY2.2	2	4.8	A	G

snpOS00415	DTY2-2_4	Abiotic stress - Drought - reproductive	qDTY2.2	2	6.2	C	T
snpOS00418	DTY3-2-Swarna_1	Abiotic stress - Drought - reproductive	qDTY3.2	3	1.2	G	A
snpOS00419	DTY3-2-IR64_1	Abiotic stress - Drought - reproductive	qDTY3.2	3	1.2	A	G
snpOS00420	DTY3-2-N22_1	Abiotic stress - Drought - reproductive	qDTY3.2	3	1.2	T	G
snpOS00424	DTY3-1_2	Abiotic stress - Drought - reproductive	qDTY3.1	3	31	C	T
snpOS00425	DTY3-1_4	Abiotic stress - Drought - reproductive	qDTY3.1	3	31.3	C	G
snpOS00426	DTY4-1_1	Abiotic stress - Drought - reproductive	qDTY4.1	4	0.1	T	C
snpOS00427	DTY4-1_2	Abiotic stress - Drought - reproductive	qDTY4.1	4	0.9	C	A
snpOS00483	DTY12-1_1	Abiotic stress - Drought - reproductive	qDTY12.1	12	17.3	G	C
snpOS00484	DTY12-1_2	Abiotic stress - Drought - reproductive	qDTY12.1	12	17.3	A	G
snpOS00432	HTSF4_1	Abiotic stress - Heat - Reproductive	qHTSF4	4	18.1	A	T
snpOS00397	Saltol-Aus	Abiotic stress - Salinity - Seedling	Saltol	1	11.4	T	G
snpOS00398	Saltol-Aro	Abiotic stress - Salinity - Seedling	Saltol	1	11.4	T	C
snpOS00405	qSES1-2_1	Abiotic stress - Salinity - Seedling	qSES1.2	1	39.3	A	G
snpOS00409	qSES1-2_2	Abiotic stress - Salinity - Seedling	qSES1.2	1	39.8	C	T
snpOS00410	qSES1-2_3	Abiotic stress - Salinity - Seedling	qSES1.2	1	40.3	A	G
snpOS00411	qSES1-2_4	Abiotic stress - Salinity - Seedling	qSES1.2	1	40.6	T	A
snpOS00040	s9_6774928	Abiotic stress - Submergence	Submergence	9	6.7	T	C
snpOS00042	Sub1A-1	Abiotic stress - Submergence	Submergence	9			
snpOS00043	Sub1A-2	Abiotic stress - Submergence	Submergence	9			
snpOS00417	his1	Agronomic traits - Herbicide tolerance	his1	2	10.3	INS	-
snpOS00004	s6_27627615	Disease - Bacterial leaf blight	Bacterial leaf blight-Xa7	6	27.6	A	C
snpOS00054	xa5-S1_SKEP	Disease - Bacterial leaf blight	xa5	5	0.4	AG	TC
snpOS00061	Xa21_SKEP	Disease - Bacterial leaf blight	Xa21	11	21.2	C	G
snpOS00481	xa4_2	Disease - Bacterial leaf blight	Xa4	11	28.7	T	G
snpOS00482	sweet13	Disease - Bacterial leaf blight	Sweet13	12	17.3	-	T
snpOS00493	xa13_1	Disease - Bacterial leaf blight	xa13	8	26.7	C	G
snpOS00494	xa13_2	Disease - Bacterial leaf blight	xa13	8	26.7	T	C
snpOS00495	sweet14_pro1	Disease - Bacterial leaf blight	Sweet14	11	18.1	C	G
snpOS00497	Xa23_1	Disease - Bacterial leaf blight	Xa23	11	22.2	T	A

snpOS00501	Xa4_4	Disease - Bacterial leaf blight	Xa4	11	28.2	-	INS
snpOS00006	Pi-ta	Disease - Blast	Blast	12	10.6	C	A
snpOS00468	Pi33_1	Disease - Blast	qPi33	8	6.1	T	G
snpOS00469	Pi33_2	Disease - Blast	qPi33	8	6.7	T	C
snpOS00470	Pi33_3	Disease - Blast	qPi33	8	7.4	T	G
snpOS00478	Pb1_1	Disease - Blast	Pb1	11	22.8	T	C
snpOS00488	Pikh_2	Disease - Blast	Pik locus	11	27.9	G	A
snpOS00490	Pikh_3	Disease - Blast	Pik locus	11	27.9	T	C
snpOS00491	Pikh_1	Disease - Blast	Pik locus	11	27.9	A	G
snpOS00499	Pi54_5	Disease - Blast	Pi54	11	25.2	G	A
snpOS00429	Bph17_1	Disease - Insect - Brown planthopper	Bph17	4	6.9	T	C
snpOS00430	Bph17_3	Disease - Insect - Brown planthopper	Bph17	4	6.9	G	A
snpOS00431	Bph17_2	Disease - Insect - Brown planthopper	Bph17	4	6.9	G	C
snpOS00442	BPH32	Disease - Insect - Brown planthopper	Bph32	6	1.2	G	C
snpOS00486	BPH9_2	Disease - Insect - Brown planthopper	qBph9	12	22.8	A	C
snpOS00464	Gm4_1	Disease - Insect - Gall midge	qGm4	8	5.3	A	G
snpOS00465	Gm4_2	Disease - Insect - Gall midge	qGm4	8	5.4	T	G
snpOS00466	Gm4_3	Disease - Insect - Gall midge	qGm4	8	5.4	A	G
snpOS00467	Gm4_4	Disease - Insect - Gall midge	qGm4	8	5.5	C	G
snpOS00477	STV11	Disease - Virus - Rice stripe virus	STV11	11	17.9	T	A
snpOS00434	rymv1-5	Disease - Virus - Rice Yellow Mottle Virus	RYMV1	4	24.9	-	INS
snpOS00435	rymv1-2	Disease - Virus - Rice Yellow Mottle Virus	RYMV1	4	24.9	T	C
snpOS00050	RTSV1-1*	Disease - Virus - Tungro virus	RTSV1	7	22.1	-3	0
snpOS00438	TBV1_2	Disease - Virus - Tungro virus	TBV1	4	31.2	A	C
snpOS00458	TSV1_UM	Disease - Virus - Tungro virus	TSV1-TKM6+AdaySel	7	22.1	C	T
snpOS00022	BADH2.1-7	Grain quality	Grain quality	8	20.3	TATAT	AAAAGATTATGGC
snpOS00024	chalk5_576	Grain quality	Grain quality	5	3.3	G	A
snpOS00033	GS3	Grain quality	Quality	3	16.7	T	G
snpOS00036	SSIa_SNP3F2	Grain quality	Quality	6	6.7	A	G
snpOS00037	Waxy exon 6	Grain quality - Amylose	Quality	6	1.7	C	A

snpOS00038	Wx-GBSS-ex10	Grain quality - Amylose	Quality	6	1.7	T	C
snpOS00445	Wx-A_group	Grain quality - Amylose	Wx(a)	6	1.7	C	T
snpOS00446	Wx-A-NB	Grain quality - Amylose	Wx(a)-NB	6	1.7	G	A
snpOS00448	Wx-A-Swarna	Grain quality - Amylose	Wx(a)-Sw	6	1.7	C	G
snpOS00449	Wx-int-Basmati	Grain quality - Amylose	Wx(int)-Basmati	6	1.7	T	C
snpOS00472	PGWC8-2	Grain quality - Chalk	PGC8-2	8	25.8	G	A
snpOS00450	SSIa-3b	Grain quality - Gelatinisation temperature	Alk-haplotype 3b	6	6.7	T	C
snpOS00440	GW5_1	Grain quality - Grain size/shape	GW5	5	5.3	C	T
snpOS00441	GW5_2	Grain quality - Grain size/shape	GW5	5	5.3	A	G
snpOS00461	NAS3_2	Grain quality - Zinc content	NAS3	7	29.2	C	A
snpOS00457	Ghd7-0	Heading date	Ghd7-0	7	9.1	A	C
snpOS00463	DTH8-IR24	Heading date	DTH8	8	4.3	T	-
snpOS00396	Gn1a_1	Yield components - Grain number	Gn1a	1	5.2	T	A
snpOS00452	TGW6	Yield components - Grain size/shape	TGW6	6	25	-	G
snpOS00476	dep1-2	Yield components - Panicle architecture	DEP1	9	16.4	INS	-
snpOS00437	NAL1	Yield components - Photosynthesis	NAL1	4	31.2	A	G