

Table S1. EST annotations of the OWB and SxM population

OWB				
Trait	Marker	Chromosome	Protein	Species
D20	GBR1682	2H	putative eukaryotic translation initiation factor 6	<i>Oryza sativa</i>
D20	GBS0003	2H	putative peroxidase	<i>Oryza sativa</i>
D20	GBS0236	2H	putative acyl-CoA dehydrogenase	<i>Oryza sativa</i>
D20	GBS0864	2H	elongation factor 1 beta	<i>Triticum aestivum</i>
D10; DI	GBR1138	3H	putative translation initiation factor	<i>Oryza sativa</i>
D10; DI	GBR1792	3H	putative early nodulin 8 precursor	<i>Oryza sativa</i>
PHS	GBM1173	5H	putative RNA helicase	<i>Oryza sativa</i>
DI; PHS	GBR0986	5H	dehydration-responsive protein-like	<i>Oryza sativa</i>
D10; DI	GBR1057	5H	aldehyde dehydrogenase	<i>Oryza sativa</i>
PHS	GBR1082	5H	putative calcium-dependent protein kinase	<i>Oryza sativa</i>
PHS	GBR1349	5H	serine/threonine protein kinase SAPK9	<i>Oryza sativa</i>
PHS	GBR1564	5H	bZIP transcription factor ZIP1	<i>Hordeum vulgare</i>
D10; DI; PHS	GBR188	5H	iron/ascorbate-dependent oxidoreductase	<i>Hordeum vulgare</i>
DI; PHS	GBR518	5H	histone H3	<i>Oryza sativa</i>
PHS	GBS0019	5H	phosphoribulokinase/uridine kinase family protein	<i>Arabidopsis thaliana</i>
D10; DI; PHS	GBS0042	5H	putative rp3 protein	<i>Zea mays</i>
PHS	GBS0242	5H	putative RNA recognition motif (RRM)-containing protein	<i>Oryza sativa</i>
PHS	GBS0283	5H	helicase-like protein	<i>Oryza sativa</i>
PHS	GBS0286	5H	alpha 1,4 fucosyltransferase	<i>Arabidopsis thaliana</i>
D10; DI; PHS	GBS0318	5H	hypersensitive-induced reaction protein 3	<i>Hordeum vulgare</i>
PHS	GBS0330	5H	coatamer alpha subunit	<i>Hordeum vulgare</i>
D20	GBM1027	6H	glutathione S-transferase 1	<i>Aegilops tauschii</i>
D20	GBR1597	6H	putative heat stress transcription factor Spl7	<i>Oryza sativa</i>
D20	GBR458	6H	putative ubiquitin / ribosomal protein S27a	<i>Oryza sativa</i>
D20; DI	GBR504	6H	BAX inhibitor 1	<i>Hordeum vulgare</i>
DI	GBS0617	6H	phenylalanine ammonia-lyase	<i>Hordeum vulgare</i>
D20	GBM1359	7H	serine/threonine protein phosphatase PP2A-1 catalytic subunit	<i>Oryza sativa</i>
D20; DI; PHS	GBR1478	7H	putative transcription factor EREBP1	<i>Oryza sativa</i>
DI	GBR159b	7H	putative translation initiation factor	<i>Oryza sativa</i>
D20	GBR283	7H	putative enoyl-ACP reductase	<i>Oryza sativa</i>
D20	GBS0040	7H	putative disease resistance protein	<i>Arabidopsis thaliana</i>
D20	Nud	7H	naked caryopsis gene	
SxM				
Trait	Marker	Chromosome	Protein	Species
D10; D20; DI; PHS	Ale	5H	aleurain; a barley thiol protease synthesized during seed germination	
PHS	GBR0097	5H	putative transcription factor	<i>Oryza sativa</i>
			ankyrin protein kinase-like	<i>Poa pratensis</i>
PHS	GBR0287	5H	putative DNA-3-methyladenine glycosylase I	<i>Oryza sativa</i>

D10; D20; DI	GBR0482	5H	putative permease 1	<i>Oryza sativa</i>
D10; D20; DI; PHS	GBR1041	5H	ribosomal protein P1	<i>Triticum aestivum</i>
D10; D20; DI; PHS	GBR1543	5H	heat-shock protein	<i>Secale cereale</i>
D20	GBR1697	5H	putative eukaryotic initiation factor subunit	<i>Oryza sativa</i>
D10; D20; DI; PHS	GBS0462	5H	poly(A)-binding protein	<i>Triticum aestivum</i>
D10; D20; DI; PHS	GBS0561	5H	beta-hordothionin	<i>Hordeum vulgare</i>
D10; D20; DI; PHS	GBS0613	5H	putative cysteine conjugate beta-lyase	<i>Oryza sativa</i>
D10; D20; DI; PHS	GBS0892	5H	putative eukaryotic translation initiation factor 3 subunit 8	<i>Oryza sativa</i>
D20; DI; PHS	Ltp1	5H	lipid transfer protein	
