

Supporting Information Table S1. Public sequence datasets used in RBFLDB.

Data type	Dataset	Organism	No. entries	URL	Version	Utility in RBFLDB
Proteome sequence	NCBI nr	all	17,829,843	ftp://ftp.ncbi.nlm.nih.gov/blast/db/	11-Apr-12	Functional prediction
	UniProt (TrEMBL + Swiss-Prot)	all	21,174,559	ftp://ftp.uniprot.org/pub/databases/uniprot/current_release/knowledgebase/complete/	21-Mar-12	
	TAIR Arabidopsis protein	<i>Arabidopsis thaliana</i>	35,386	ftp://ftp.arabidopsis.org/home/tair/Sequences/blast_datasets/TAIR10_blastsets/	10	
	RAP-DB protein	<i>Oryza sativa</i>	42,105	http://rapdb.dna.affrc.go.jp/download/irgsp1.html	2	
	TIGR/MSU Rice protein	<i>Oryza sativa</i>	66,338	ftp://ftp.plantbiology.msu.edu/pub/data/Eukaryotic_Projects/o_sativa/annotation_dbs/pseudomolecules/version_7.0/all.dir/	7	
Genome sequence and annotation	Phytozome 8	<i>Brachypodium distachyon</i>	Chromosomes: 83 (including scaffolds) Genes: 26,552 mRNAs: 31,029	ftp://ftp.jgi-psf.org/pub/compngen/phytozome/v8.0/Bdistachyon/	8	Annotation update Reference of comparative mapping Genome browser
	MIPS 1.2	<i>Brachypodium distachyon</i>	Chromosomes: 83 (including scaffolds) Genes: 26,552 mRNAs: 31,029	ftp://brachypodium.org/brachypodium.org/	1.2	
	Barley Morex contig	<i>Hordeum vulgare</i>	Contigs: 2,670,738 Genes: 75,258 mRNAs: 131,447	ftp://ftpmips.helmholtz-muenchen.de/plants/barley/public_data/	3	
	Barley (Ensemble Plants)	<i>Hordeum vulgare</i>	Contigs: 289,664 Genes: 24,212 mRNAs: 62,241	ftp://ftp.ensemblgenomes.org/pub/plants/release-16/gtf/hordeum_vulgare/	030312v2	
	Tae FLcDNA (TriFLDB)	<i>Triticum aestivum</i>	19,175	http://trifldb.psc.riken.jp/v3/download.pl	3	
cDNAs sequence	Hvu FLcDNA (Genbank + TriFLDB)	<i>Hordeum vulgare</i>	23,614	http://barleyflc.dna.affrc.go.jp/hvdb/	Acc. AK353559 – AK377172	Queries of comparative mapping
	Triticum aestivum cDNAs (UK_454)	<i>Triticum aestivum</i>	7,341	http://trifldb.psc.riken.jp/v3/download.pl	3	
	Barley Morex cDNAs	<i>Hordeum vulgare</i>	97,481	ftp://ftpmips.helmholtz-muenchen.de/plants/wheat/UK_454/	11-Dec-12	
			131,447	ftp://ftpmips.helmholtz-muenchen.de/plants/barley/public_data/	21-Nov-12	