

Supplementary Table s3. Assessment of feature quality.

Evidence	type Feature	AUC of ROC	AUC > 0.6
Shared Annotation	biological_process_value	0.873	Yes
	molecular_function_value	0.688	Yes
	cellular_component_value	0.752	Yes
Colocation	integrated_value	0.824	Yes
	knowledge_value	0.741	Yes
	predictions_value	0.663	Yes
	textmining_value	0.63	Yes
Coexpression	RNAseq_value	0.733	Yes
	microarray_value	0.731	Yes
Phylogenetic profile	phyprofile_tanimato_value	0.735	Yes
	phyprofile_pearson_value	0.721	Yes
	phyprofile_mutual_value	0.613	Yes
Domain Interactions	INTERDOM_value	0.714	Yes
	APMM_value	0.639	Yes
	TOPDOWN_value	0.658	Yes
	DIMA_DPEA_value	0.654	Yes
	GPE_value	0.625	Yes
	PINS_value	0.555	No
	LLZ_value	0.518	No
	RDFE_value	0.568	No
	DIPD_value	0.54	No
	3DID_value	0.579	No
	IPPRI_value	0.526	No
	ME_value	0.572	No
	KGIDDI_value	0.584	No
	IPFAM_value	0.558	No
	DOMAINGA_value	0.507	No
	RCDP_value	0.525	No
	DIMA_DPROF_value	0.546	No
	PVALUE_value	0.516	No
	TW_value	0.512	No
	HIMAP_value	0.511	No
PE_value	0.563	No	
DIMA_STRING_value	0.592	No	
DPEA_value	0.528	No	
Homologous interactions	inparanoid_value	0.555	No