

**Table S5.** List of Erv1 homologues in the organisms analyzed in this study. Erv1 homologues were identified using a domain-based approach identical to that described in the Methods to detect proteins containing the Pfam domain Erv1\_Alr.

<b>Organism</b>	<b>Gene name</b>	<b>RefSeq protein accession number</b>
Homo sapiens	GFER	NP_005253.3
Mus musculus	Gfer	NP_075527.2
Drosophila melanogaster	Alr	NP_608353.2
Caenorhabditis elegans	F56C11.3	NP_490690.1
Arabidopsis thaliana	AT1G49880	NP_564557.1
Oryza sativa	Os03g0206300	NP_001049318.1
Ashbya gossypii	AGOS_ABR037W	NP_982983.2
Candida glabrata	CAGL0G00946g	XP_446402.1
Debaryomyces hansenii	DEHA0A13255g	XP_456886.1
Kluyveromyces lactis	KLLA0B06061g	XP_451806.1
Pichia stipitis	PICST_35383	XP_001383309.1
Saccharomyces cerevisiae	ERV1	NP_011543.2
Schizosaccharomyces pombe	erv1	NP_594974.1
Yarrowia lipolytica	YALI0D25894g	XP_503294.1
Cryptococcus neoformans	CND03420	XP_570522.1
Plasmodium falciparum	MAL1P2.29	XP_001351032.1
Trypanosoma cruzi	Tc00.1047053430605.40	XP_805814.1