

Additional File 6: Table S3

Table S3. Genes and primers used for qPCR.

Gene	GenBank accession number	Primer	Sequence 5'-3'	Amplicon size (bp)	Description ^c
RML ^{a,b}	A02536.1	rml-f	AGCATTGATGGTGGTATCCGC	179	<i>Rhizomucor miehei</i> lipase
		rml-r	ATAGATGAGCGTGTCCAAGT		
GAP ^{a,b}	PPU62648	gap-f	TACGTCATTGAGTCCACCGGT	184	glyceraldehyde-3-phosphate dehydrogenase
		gap-r	TGGTAGTACAAGAAGCATTGGAG		
HAC1 ^b	FR839628	HAC1-f	CAAGAATCAGCCAAAGCC	199	bZIP transcription factor that regulates UPR
		HAC1-r	TGCGAGTGGATGTAGATGC		
PDI ^b	ACF17572	PDI-f	GAGCAACAAGAAGTTTGGAGTTCC	260	Protein disulfide isomerase (PDI)
		PDI-r	CCTCATAAGCAGGAGCCATTC		
ERO1 ^b	XP_002489645	ERO1-f	CGTTAGCAAACCCCTCAAATCC	201	PDI oxidase; glycoprotein required for oxidative protein folding in the ER, protein thiol-disulfide exchange
		ERO1-r	GCAGAAATCCCTCATCAACCATT		
KAR2 ^b	XM_002490982	KAR2-f	CCTACTTCAACGACGCTCAA	199	BiP, a major Hsp70 chaperone in the ER (Sc), an ATPase regulates UPR; involved in ER quality control and ER-associated degradation
		KAR2-r	CCACCTCAATAGAAAGCAGA		
BFR2 ^b	CCA39876	BFR2-f	TGTGAGCCAAGAGTTTCCC	227	ER-to-Golgi transport, rDNA processing (Sc)
		BFR2-r	TGTCTGCCAAATAGTTGTCCAC		
PMR1 ^b	DQ239958	PMR1-f	TTCACGCTTCCCACCTTGA	187	Ca ²⁺ and Mg ²⁺ transport in ATPase
		PMR1-r	TTGGCTGTCCGATGACA		
SSO2 ^b	FR839628	SSO2-f	GTTCTCAACGGCTTTGCT	194	Secretory vesicle fusion with plasma membrane
		SSO2-r	TGTCTACCAAGTTCTCGGTCT		
MON2 ^b	FR839629	MON2-f	GGGACTCTTTGGGTATTTCCG	249	Golgi-to-endosome traffic, endocytosis, vacuole integrity
		MON2-r	ATCGGGCTCACCATCTTA		
VPS10 ^b	FR839629	VPS10-f	TGAAGAATGGACGGGAAG	221	Vacuolar protein sorting in Golgi membrane, late-Golgi
		VPS10-r	GCTCACATCGGTTAGACTCTG		
IMH1 ^b	CCA37012	IMH1-f	CGGATTCAGTTTACTAAGCGA	219	Protein involved in vesicular transport; mediates transport between an endosomal compartment and Golgi; contains a Golgi localization (GRIP) domain
		IMH1-r	AGGGTGTAGCAGATGAGCGA		
SSE1 ^b	CCA37673	SSE1-f	TGGACGAACTCTAAGTGTAGGG	184	Nuclease exchange factors for HSP70 chaperones, ATPase of the Hsp90 chaperone complex; binds unfolded proteins; localized in cytoplasm
		SSE1-r	CAAGGCTGAAGATGTGGAC		
SEC31 ^b	CCA37204	SEC31-f	CGTGTTCCTCAATCAGCCA	198	COPII coat of secretory pathway vesicle component (p150), involved in protein transport from ER to Golgi; structural molecule
		SEC31-r	TAGTTGCCTGGGTGAAGCA		
AQR1 ^b	CCA37767	AQR1-f	GCACCAGCAGTTTCCATAG	201	Plasma membrane multidrug transporter of the major facilitator superfamily
		AQR1-r	GAATACCAACATACCCAGGACT		

Primers of PDI and ERO1 as described by Sha et al. (2013). ^aPrimers used for gene copy number quantification. ^bPrimers used for transcription analysis. ^cAs described by Gasser et al. (2007) and Idiris et al. (2010).