

Supplementary Table S1. Yeast strains used in this study.

Strain	Genotype	Source
BY4741	MATa his3Δ1 leu2Δ0 met15Δ0 ura3Δ0	Euroscarf
BY4742	MATα, his3Δ1, leu2 0, lys2Δ0, ura3Δ0	Euroscarf
BY4742 Hsp78 ^{yeGFP}	BY4742 <i>HSP78</i> -yeGFP-hphNT1	This study
BY4742 Hsp78 ^{yeGFP} Cit1 ^{mScarlet}	BY4742 <i>HSP78</i> -yeGFP-hphNT1, <i>CIT1</i> -mScarlet-kanMX	This study
BY4742 Hsp78 ^{yeGFP} Atp1 ^{mScarlet}	BY4742 <i>HSP78</i> -yeGFP-hphNT1, <i>ATP1</i> -mScarlet-kanMX	This study
BY4742 Hsp78 ^{yeGFP} Tim44 ^{mScarlet}	BY4742 <i>HSP78</i> -yeGFP-hphNT1, <i>TIM44</i> -mScarlet-kanMX	This study
BY4742 Hsp78yeGFP Δ <i>pdr5</i>	BY4742 <i>HSP78</i> -yeGFP-hphNT1, <i>pdr5</i> Δ::natNT2	This study
BY4742 Δ <i>hsp78</i>	BY4742 <i>hsp78</i> Δ::kanMX	This study
BY4742 Δ <i>fmc1</i>	BY4742 <i>fmc1</i> Δ::HIS3	This study
BY4742 Δ <i>hsp78</i> Δ <i>fmc1</i>	BY4742 <i>hsp78</i> Δ::kanMX, <i>fmc1</i> Δ::HIS3	This study

Supplementary Table S2. Oligonucleotides used for gene deletion and genomic tagging.

Modification	Oligonucleotides	PCR template
C-terminal tagging of <i>HSP78</i>	5'- GCTACCAAATCATGAAGAAGGCGAAGTTGTTGAAGAGGAAG CTGAAAAGCGTACGCTGCAGGTCGAC -3' 5'- ATGTATTTTCTTGGGAATTTATTATTCATAAACCGCTTGTGCAG TTAATCGATGAATTCGAGCTCG -3'	pYM25- yeGFP- hphNT1 (Janke et al., 2004)
Control PCR <i>HSP78</i> tagging	5'- ACGCTTAAACAGAACTACGAG -3' 5'- CGAGCTCGAATTCATCGAT -3'	
Deletion of <i>HSP78</i>	5'- CTATTCCAGGAACCCTGAAACAAGCGAGTGAAAATCTTTCAAG GTAAATCAGCTGAAGCTTCGTACGC -3' 5'- ATGTATTTTCTTGGGAATTTATTATTCATAAACCGCTTGTGCAG GCATAGGCCACTAGTGGATCTG -3'	pUG6- kanMX (Gueldener et al. 2002)
Control PCR <i>HSP78</i> deletion	5'- CCTGGAGGAAATAGTAGGGA- 3' 5'- GCGTACGAAGCTTCAGCTG -3'	
C-terminal tagging of <i>CIT1</i>	5'- CTCCACCGAAAAATACAAGGAGTTGGTAAAGAAAATCGAAAGT AAGAACCGTACGCTGCAGGTCGAC -3' 5'- CATAGGGGACTCAAAGCGTAAAAATCATGAAGTCATAGCCATT TCCTTATGATCGATGAATTCGAGCTCG- 3'	pSB90- mScarlet- kanMX (This study)
Control PCR <i>CIT1</i> tagging	5'- CATTGATATCATTTGCCAAG -3' 5'- GTCGACCTGCAGCGTACG -3'	
C-terminal tagging of <i>ATP1</i>	5'- CATTTCTTTTTGAGACGTACCTTATATTCATTTTTATTTTTTAG TTCACATTAATCGATGAATTCGAGCTCG -3' 5'- GTTGGCATCTCTAAAGAGTGCTACTGAATCATTTGTTGCCACT TTTCGTACGCTGCAGGTCGAC -3'	pSB90- mScarlet- kanMX (This study)
Control PCR <i>ATP1</i> tagging	5'- CCTGCACCTATAATGGCCAC -3' 5'- CGAGCTCGAATTCATCGAT -3'	

C-terminal tagging of <i>TIM44</i>	5'- GAATAGGAAGGAAAAGGAAAAGAAAACAAAAGAGTACATCGA AACCAATCAATCGATGAATTCGAGCTCG -3' 5'- GGGTGAAGATCTTGGAGTTTGTGCGCGGGGTTCTAGACAA TTCACCCGTACGCTGCAGGTCGAC -3'	pSB90- mScarlet- kanMX (This study)
Control PCR <i>TIM44</i> tagging	5'- CATGACTCTACGGAGAGAATTG -3' 5'- CGAGCTCGAATTCATCGAT -3'	
Deletion of <i>FMC1</i>	5'- GATAACAAAAAGCTGAAAAGAGAGAGAAAGAGAGAGTGCCAG GGAAATGCGTACGCTGCAGGTCGAC -3' 5'- CATCAAATATATATATACTTATTTACAAAACCTCTGATATTATA AATTGATTAGATACTAATCGATGAATTCGAGCTCG -3'	pFA6a- HIS3MX (Janke et al., 2004)
Control PCR <i>FMC1</i> deletion	5'- GTGCGATGTTCTGAATTTTG -3' 5'- GTCGACCTGCAGCGTACG -3'	
Deletion of <i>PDR5</i>	5'- CCCTTTTAAGTTTTTCGTATCCGCTCGTTTCGAAAGACTTTAGAC AAAAATGCGTACGCTGCAGGTCGAC -3' 5'- GTCCATCTTGGAAGTTTCTTTTCTTAACCAAATTCAAATTCT ATTAATCGATGAATTCGAGCTCG -3'	pFA6a-natNT2 (Janke et al., 2004)
Control PCR <i>PDR5</i> deletion	5'- CGAACGTTTCGATTCTGCGC -3' 5'- GTCGACCTGCAGCGTACG -3'	

Supplementary Table S3. Plasmid generated in this study.

Plasmid	Cloning strategy	Template
pSB90	42 bp linker + mScarlet introduced with BswI and BamHI into pYM27 (Janke et al., 2004) Primers: 5'-TAAGCACGTACGCTGCAGGTCGACGGATCAGGAGCAGGTGCTGGTGCTGG TGCTGGAGCAATTCTGATGGTGAGCAAGGGCGAGG -3' 5'- ATCTGGATCCTTATTTATATAATTCATCCATACCACCAG -3'	pDRF1-GW mScarlet-T2A- mTurquoise2 (Addgene)