

Table S1. Yeast strains used in this study

Name	Genotype	Source
NM201	w303 Mata <i>ade2-1; his3-11,15; leu2,112; trp1; ura23-53; can1-100</i>	
NM205	w303 Mata <i>pho8::HIS3</i> [pHS12 mtDsRed.T3] [pYX242mtPho8]	This study
NM211	BY4742 Mata <i>his3Δ1 ; leu2Δ0 ; lys2Δ0 ; Ura3Δ0</i>	
NM214	BY4742 Mata [pRS316 GFP-Atg8] [pRS323 mtDsRed.T4]	This study
NM215	w303 Mata <i>mgm1-5 G408D</i>	Wong et al. 2000
NM218	w303 Mata <i>mgm1-5 pho8::HIS3</i> [pHS12 mtdSRed.T3] [pVT100U mtPho8]	This study
NM225	BY4742 Mata <i>pho8::kanMX4</i> [pRS323 mtDsRed.T4] [pRS316 GFP-Atg8]	This study
NM021	BY4742 Mata <i>pho8::kanMX4</i> [pVT100U mtGFP] [pYX242 mtPho8]	This study
NM022	BY4742 Mata <i>pho8::kanMX4</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
NM 6-1	BY4742 Mata <i>pho8::kanMX4</i> [Yep213] [pVT100U mtPho8]	This study
NM380	BY4742 Mata <i>pho8::kanMX4</i> [Yep213] [pVT100U cytPho8]	This study
NM 6	BY4742 Mata <i>pho8::kanMX4</i> [Yep213 Dnm1a] [pVT100U mtPho8]	This study
NM378	BY4742 Mata <i>pho8::kanMX4</i> [Yep213 Dnm1a] [pVT100U cytPho8]	This study
NM233	BY4742 Mata <i>pho8::kanMX4</i> [Yep213 Dnm1 K41A] [pVT100U mtPho8]	This study
NM379	BY4742 Mata <i>pho8::kanMX4</i> [Yep213 Dnm1 K41A] [pVT100U cytPho8]	This study
NM234	BY4742 Mata <i>pho8::kanMX4</i> [Yep213 Dnm1 S42N] [pVT100U mtPho8]	This study
NM235	BY4742 Mata <i>pho8::kanMX4</i> [Yep213 Dnm1 S42N] [pVT100U cytPho8]	This study
NM246	BY4742 Mata <i>dnm1::kanMX4</i> [pRS316 GFP-Atg8] [pRS323 mtDsRed.T4]	This study
NM070	BY4742 Mata <i>dnm1::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 mtPho8]	This study
NM071	BY4742 Mata <i>dnm1::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
NM261	BY4742 Mata <i>fis1::kanMX4 whi2-1</i> [pRS316 GFP-Atg8] [pRS323 mtDsRed.T4]	This study
R-771	BY4742 Mata <i>fis1::kanMX4 whi2-2</i> [pRS323 mtDsRed.T4] [pRS416]	This study
R-772	BY4742 Mata <i>fis1::kanMX4 whi2-2</i> [pRS323 mtDsRed.T4] [pRS416 Fis1]	This study
R-773	BY4742 Mata <i>fis1::kanMX4 whi2-2</i> [pRS323 mtDsRed.T4] [YPlac33 Whi2]	This study
NM044	BY4742 Mata <i>fis1::kanMX4 whi2-1 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 mtPho8]	This study
NM043	BY4742 Mata <i>fis1::kanMX4 whi2-1 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
NM091	BY4742 Mata <i>fis1::kanMX4 whi2-1 pho8::HIS3</i> [pRS416 Fis1] [pYX242 mtPho8]	This study
NM092	BY4742 Mata <i>fis1::kanMX4 whi2-1 pho8::HIS3</i> [pRS416 Fis1] [pYX242 cytPho8]	This study
NM095	BY4742 Mata <i>fis1::kanMX4 whi2-1 pho8::HIS3</i> [pRS416] [pYX242 mtPho8]	This study
NM096	BY4742 Mata <i>fis1::kanMX4 whi2-1 pho8::HIS3</i> [pRS416] [pYX242 cytPho8]	This study
NM093	BY4742 Mata <i>fis1::kanMX4 whi2-1 pho8::HIS3</i> [YPlac33 Whi2] [pYX242 mtPho8]	This study
NM094	BY4742 Mata <i>fis1::kanMX4 whi2-1 pho8::HIS3</i> [YPlac33 Whi2] [pYX242 cytPho8]	This study
NM297	BY4742 Mata <i>atg8::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 mtPho8]	This study
NM298	BY4742 Mata <i>atg8::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
NM327	BY4742 Mata <i>mdv1::kanMX4</i> [pRS316 GFP-Atg8] [pRS323 mtDsRed.T4]	This study
NM03	BY4742 Mata <i>mdv1::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 mtPho8]	This study
NM04	BY4742 Mata <i>mdv1::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
NM375	BY4742 Mata <i>caf4::kanMX4</i> [pRS316 GFP-Atg8] [pRS323 mtDsRed.T4]	This study
NM050	BY4742 Mata <i>caf4::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 mtPho8]	This study
NM333	BY4742 Mata <i>caf4::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
NM344	BY4742 Mata <i>atg11::kanMX4</i> [pRS316 GFP-Atg8] [pRS323 mtDsRed.T4]	This study
NM346	BY4742 Mata <i>atg11::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242mtPho8]	This study
NM347	BY4742 Mata <i>atg11::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
NM350	BY4742 Mata <i>atg20::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 mtPho8]	This study
NM351	BY4742 Mata <i>atg20::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
NM354	BY4742 Mata <i>atg24::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 mtPho8]	This study
NM355	BY4742 Mata <i>atg24::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
NM023	BY4742 Mata <i>pep4::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 mtPho8]	This study
NM024	BY4742 Mata <i>pep4::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
NM365	BY4742 Mata <i>whi2::kanMX4</i> [pRS316 GFP-Atg8] [pRS323 mtdSRed.T4]	This study
NM041	BY4742 Mata <i>whi2::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 mtPho8]	This study
NM042	BY4742 Mata <i>whi2::kanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
NM064	BY4742 Mata <i>whi2::kanMX4 pho8::HIS3</i> [YPlac33 Whi2] [pYX242 mtPho8]	This study
NM065	BY4742 Mata <i>whi2::kanMX4 pho8::HIS3</i> [YPlac33 Whi2] [pYX242 cytPho8]	This study
NM101	BY4742 Mata <i>whi2::kanMX4 pho8::HIS3</i> [pRS416] [pYX242 mtPho8]	This study
NM102	BY4742 Mata <i>whi2::kanMX4 pho8::HIS3</i> [pRS416] [pYX242 cytPho8]	This study
R-952	BY4742 Mata <i>fis1::kanMX4 whi2-2</i> [pRS323 mtDsRed.T4] [pRS416]	This study
R-954	BY4742 Mata <i>fis1::kanMX4 whi2-2</i> [pRS323 mtDsRed.T4] [YPlac33 Whi2]	This study
NM409	W303 Mata <i>fis1::KanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 mtPho8]	This study
NM407	W303 Mata <i>fis1::KanMX4 pho8::HIS3</i> [pVT100U mtGFP] [pYX242 cytPho8]	This study
R-1192	W303 Mata <i>fis1::KanMX4 pho8::HIS3</i> [pRS316 GFP-Atg8] [pHS12 mtDsRed.T3]	This study

R-1288	BY4742 Mat α <i>whi2::kanMX4</i> [pRS313 GFP-Atg8] [pVT100U]	This study
R-1287	BY4742 Mat α <i>whi2::kanMX4</i> [pRS313 GFP-Atg8] [pVT100U Whi2-His]	This study
R-1276	BY4742 Mat α [pYX242]	This study
R-1277	BY4742 Mat α <i>pho8::kanMX4</i> [pYX242]	This study
R-1278	BY4742 Mat α <i>pho8::kanMX4</i> [pYX242 mtPho8]	This study
R-1279	BY4742 Mat α <i>pho8::kanMX4</i> [pYX242 <i>cytPho8</i>]	This study
NM453	BY4742 Mat α [pVT100U mtGFP]	This study