

Supplemental Material

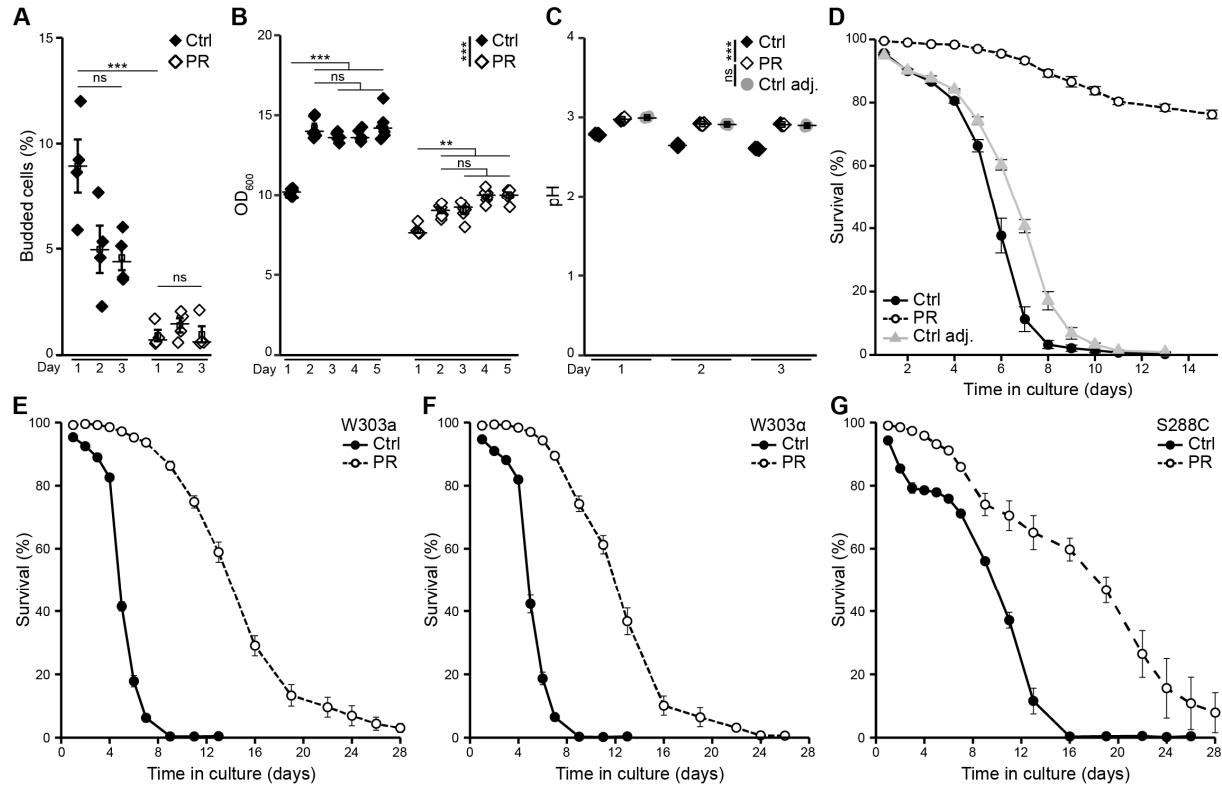


Figure S1. Phosphate exhaustion results in efficient entry into quiescence and longevity in different genetic backgrounds. (A) Quantification of budded WT cells cultured on standard medium (Ctrl) and phosphate-restricted medium (PR) for indicated days. Cells were manually counted, and percentage of budded cells is shown; $n = 4$, with at least 100 cells per experiment and condition. (B) Optical density (OD_{600}) of WT cells cultured in Ctrl and PR media, determined at indicated time points during aging; $n = 6$. (C) Determination of culture media pH after WT cells have been cultured for indicated days on standard medium (Ctrl), phosphate-restricted medium (PR) and standard medium with pH adjustment to the media pH of PR cultures (Ctrl adj.). (D) Survival during chronological aging of WT cells cultured as described in (C). Survival was determined by flow cytometric analysis of PI staining; $n = 5$. (E-G) Survival of the yeast wild type strains W303a (E), W303 α (F), and S288c (G) during chronological aging on Ctrl and PR medium. Survival was determined by flow cytometric analysis of PI staining at indicated days during aging; $n=3-6$. For statistical analysis, two-way ANOVA (A, B, C) was used. ** $p < 0.01$ and *** $p < 0.001$; ns not significant.

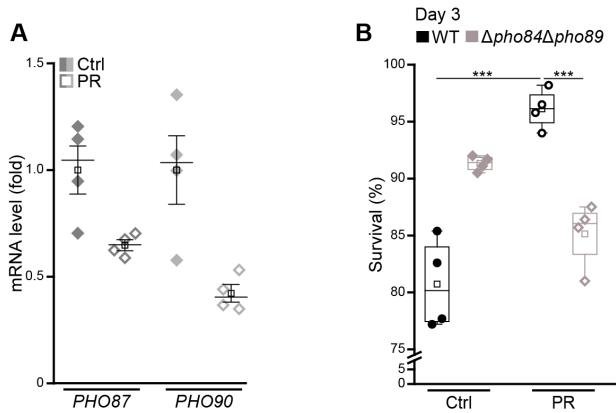


Figure S2. Gradual phosphate exhaustion leads to transcriptional downregulation of low-affinity phosphate transporters. **(A)** Quantification of *PHO87* and *PHO90* mRNA levels via RT-qPCR in WT cells grown for 24 h on standard (Ctrl) or phosphate restriction (PR) medium. Comparative CT method ($\Delta\Delta CT$ method) was used to calculate the relative gene expression using *UBC6* as house-keeping gene; $n = 4$. **(B)** Survival of WT cells and cells lacking both high-affinity phosphate transporters ($\Delta pho84\Delta pho89$) on day 3 of chronological aging on Ctrl or PR medium, corresponding to the survival curve shown in Fig. 1L; $n = 4$. For statistical analysis, one-way ANOVA followed by Tukey post hoc for multiple comparisons **(B)** was used. *** $p < 0.001$.

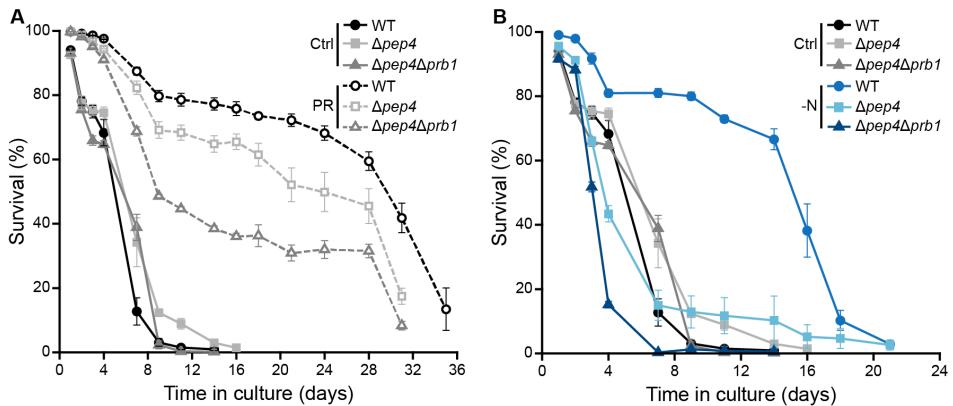


Figure S3. Simultaneous lack of the vacuolar proteases Pep4 and Prb1 impairs phosphate restriction-induced longevity. Survival during chronological aging, determined via flow cytometric quantification of PI staining, of WT, $\Delta pep4$ and $\Delta pep4\Delta prb1$ cells grown under different nutrient conditions: phosphate restriction (PR), nitrogen starvation (-N) and standard conditions (Ctrl). For clarity, survival curves are shown in two separate graphs for phosphate restriction **(A)** and nitrogen starvation **(B)**; $n \geq 4$.

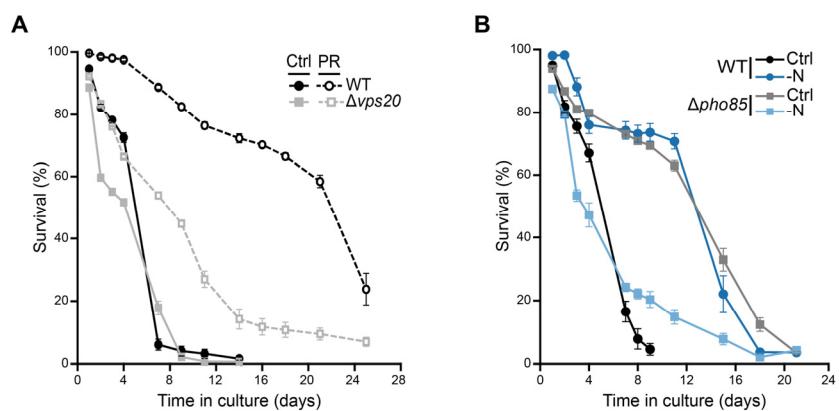
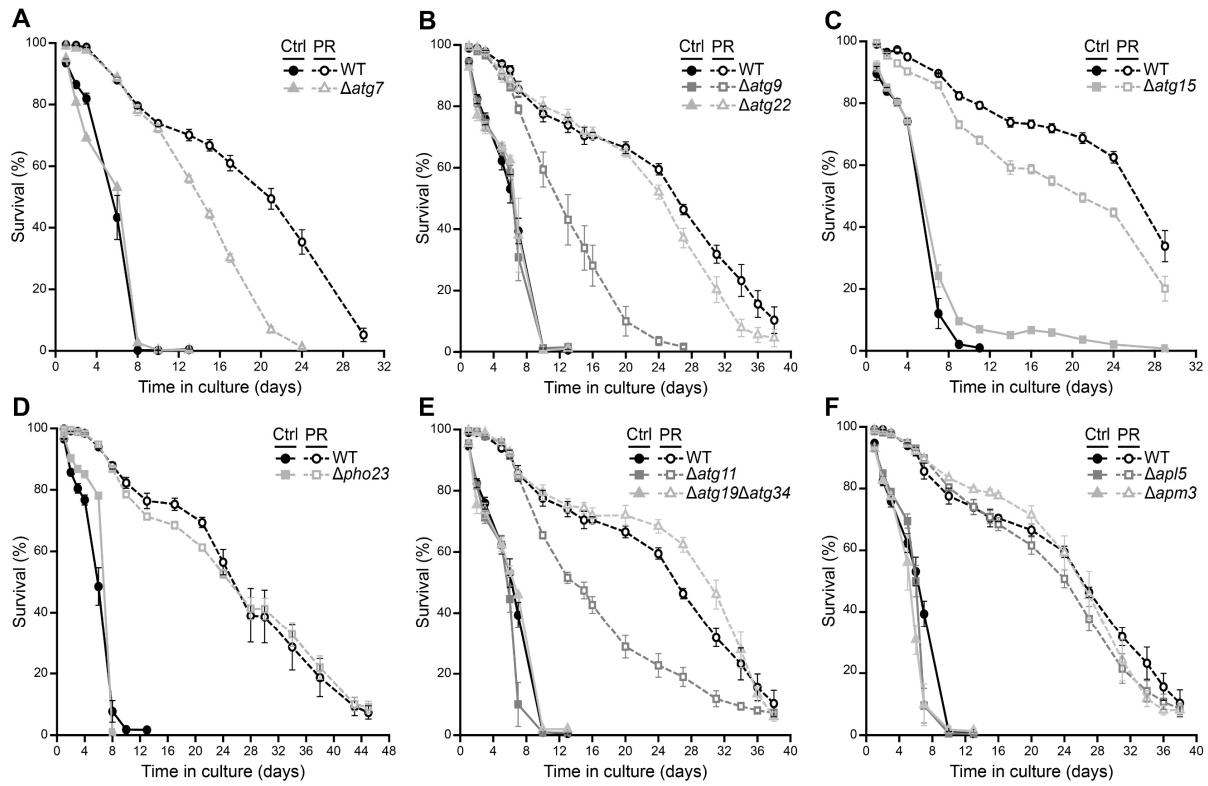


Table S1. Yeast strains used in this study.

Strain	Genotype	Source
BY4742	MAT α , <i>his3</i> 1, <i>leu2</i> 0, <i>lys2</i> 0, <i>ura3</i> 0	Euroscarf
W303a	MATA, <i>ade2-1</i> , <i>ura3-1</i> , <i>his3-11</i> , <i>trp1-1</i> , <i>leu2-3</i> , <i>leu2-112</i> , <i>can1-100</i>	
W303 α	MAT α , <i>ade2-1</i> , <i>ura3-1</i> , <i>his3-11</i> , <i>trp1-1</i> , <i>leu2-3</i> , <i>leu2-112</i> , <i>can1-100</i>	
S288C	MAT α , <i>SUC2</i> , <i>gal2</i> , <i>mal2</i> , <i>mel</i> , <i>flo1</i> , <i>flo8-1</i> , <i>hap1</i> , <i>ho</i> , <i>bio1</i> , <i>bio6</i>	
BY4742 Vph1 ^{mCherry}	BY4742 <i>VPH1-mCherry-natNT2</i>	This study
<i>pho84</i>	BY4742 <i>pho84</i> ::hphNT1	This study
<i>pho89</i>	BY4742 <i>pho89</i> ::hphNT1	This study
<i>pho84 pho89</i>	BY4742 <i>pho84</i> ::hphNT1, <i>pho89</i> ::natNT2	This study
<i>pho87</i>	BY4742 <i>pho87</i> ::hphNT1	Euroscarf
<i>pho90</i>	BY4742 <i>pho90</i> ::hphNT1	Euroscarf
<i>vtc1</i>	BY4742 <i>vtc1</i> ::hphNT1	This study
<i>vtc2</i>	BY4742 <i>vtc2</i> ::hphNT1	This study
<i>vtc3</i>	BY4742 <i>vtc3</i> ::hphNT1	This study
<i>vtc4</i>	BY4742 <i>vtc4</i> ::hphNT1	This study
<i>vtc5</i>	BY4742 <i>vtc5</i> ::natNT2	This study
<i>vtc4 vtc5</i>	BY4742 <i>vtc4</i> ::hphNT1, <i>vtc5</i> ::natNT2	This study
BY4742 ^{GFP} Atg8	BY4742 pATG8 ::natNT2-pATG8-EGFP	This study
BY4742 ^{GFP} Atg8 Vph1 ^{Redstar}	BY4742 pATG8 ::natNT2-pATG8-EGFP, <i>VPH1-Redstar-kanMX</i>	This study
<i>pep4</i>	BY4742 <i>pep4</i> ::hphNT1	This study
<i>pep4 prb1</i>	BY4742 <i>pep4</i> ::hphNT1, <i>prb1</i> ::kanMX	This study
<i>atg1</i>	BY4742 <i>atg1</i> ::hphNT1	This study
<i>atg4</i>	BY4742 <i>atg4</i> ::hphNT1	This study
<i>atg7</i>	BY4742 <i>atg7</i> ::hphNT1	This study
<i>atg8</i>	BY4742 <i>atg8</i> ::hphNT1	This study
<i>atg9</i>	BY4742 <i>atg9</i> ::hphNT1	This study
<i>atg11</i>	BY4742 <i>atg11</i> ::hphNT1	This study
<i>atg15</i>	BY4742 <i>atg15</i> ::hphNT1	This study
<i>atg22</i>	BY4742 <i>atg22</i> ::hphNT1	This study
<i>atg19 atg34</i>	BY4742 <i>atg19</i> ::hphNT1, <i>atg34</i> ::kanMX	This study
<i>atg39</i>	BY4742 <i>atg39</i> ::hphNT1	This study
<i>apl5</i>	BY4742 <i>apl5</i> ::hphNT1	This study
<i>apm3</i>	BY4742 <i>apm3</i> ::hphNT1	This study
<i>pho23</i>	BY4742 <i>pho23</i> ::hphNT1	This study
BY4742 Sna3 ^{GFP}	BY4742 SNA3-EGFP-kanMX	This study
BY4742 Sna3 ^{GFP} Vph1 ^{mCherry}	BY4742 SNA3-EGFP-KanMX, <i>VPH1-mCherry-natNT2</i>	This study
<i>vps24</i>	BY4742 <i>vps24</i> ::hphNT1	This study
<i>vps24 Sna3^{GFP}</i>	BY4742 <i>vps24</i> ::hphNT1, SNA3-yeGFP-kanMX	This study
<i>vps24 Sna3^{GFP}</i> Vph1 ^{mCherry}	BY4742 <i>vps24</i> ::hphNT1, SNA3-yeGFP-kanMX, <i>VPH1-mCherry-natNT2</i>	This study
<i>vps4</i>	BY4742 <i>vps4</i> ::hphNT1	This study
<i>vps20</i>	BY4742 <i>vps20</i> ::hphNT1	This study
<i>atg1 vps24</i>	BY4742 <i>atg1</i> :: kanMX, <i>vps24</i> ::kanMX	Ralf Braun
<i>mon1</i>	BY4742 <i>mon1</i> ::natNT2	This study
<i>ypt7</i>	BY4742 <i>ypt7</i> ::hphNT1	This study
<i>rim15</i>	BY4742 <i>rim15</i> ::hphNT1	This study

<i>pho80</i>	BY4742 <i>pho80</i> ::hphNT1	This study
<i>pho81</i>	BY4742 <i>pho81</i> ::hphNT1	This study
<i>pho85</i>	BY4742 <i>pho85</i> ::hphNT1	This study
BY4742 GFP Atg8	BY4742 pATG8 ::natNT2-pATG8-EGFP,	This study
<i>pho85</i>	<i>pho85</i> ::hphNT1	
BY4742 GFP Atg8	BY4742 pATG8 ::natNT2-pATG8-EGFP,	
<i>pho85</i> Vph1 ^{Redstar}	<i>pho85</i> ::hphNT1, <i>VPH1</i> -Redstar-kanMX	This study

Table S2. Oligonucleotides used for gene deletion, chromosomal tagging and RT-qPCR.

Modification	Oligonucleotides	PCR template
		Deletion and tagging of genes
C-terminal tagging of <i>VPH1</i>	5'-GAAGTACTAAATGTTCGCTTTTAAAAGTCCTCAAAAT TTAATCGATGAATTGAGCTCG-3' 5'-GACATGGAAGTCGCTGGCTAGTGCAAGCTTCCGCTTC AAGCCGTACGCTGCAGGTCGAC-3'	pYM42-mCherry-natNT2 [1]
Control PCR <i>VPH1</i> tagging	5'-CGAGCTCGAATTATCGAT-3' 5'-GTATTGAGGCCAATACTTG-3'	pYM38 [2]
Deletion of <i>PHO84</i>	5'-CGTAGATCACCAGGGCACACAACAAACAAACTCCACGAA TACAATCAA ATG CGTACGCTGCAGGTCGAC-3' 5'-GTATTATTTGTTCTAGTTACAAGTTAGTGCATTTG AG- GCTTTAATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR <i>PHO84</i> deletion	5'-CGTTCTCTCACTGCCGCAC-3' 5'-GTCGACCTGCAGCGTACG-3'	pFA6a-hphNT1
Deletion of <i>PHO89</i>	5'-AAACTGGACCGTATCTAACATCAATATAAACAAAGATT AAGCAAAA ATG CGTACGCTGCAGGTCGAC-3' 5'-TACCTAATGTTGAAAATG TATTCAAACCGAAACACATT ATGATTAATCGATGAATTGAGCTCG-3'	[2] pFA6a-natNT2 [2]
Control PCR <i>PHO89</i> deletion	5'-GAATATACCGTACAAAGGAG-3' 5'-GTCGACCTGCAGCGTACG-3'	pFA6a-hphNT1
Deletion of <i>VTC1</i>	5'-CGATTACTACATTATCGAACATACGATTAAACACTACGCC AGAT- TTCCACAATATCGTACGCTGCAGGTCGAC-3' 5'-GAAAATACAGTTGCGTAACCCACGCTTACGATATT GGAATTACAATTCAATCGATGAATTGAGCTCG-3'	[2] pFA6a-hphNT1
Control PCR <i>VTC1</i> deletion	5'-GGACCAGTTTATAAGAAGGT-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of <i>VTC2</i>	5'-GTAGAAAGAACGACTACACCTAACATAACGACACTT TTTT- GACATG CGTACGCTGCAGGTCGAC-3' 5'-GCTACACATTACAAACATAAAAACACATGGTCTCAGTAGA TA- GAGTACATATTCTAACGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR <i>VTC2</i> deletion	5'-CTGGAAGGTATTTCATCAG-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of <i>VTC3</i>	5'-GGCTATTAGAGCGAACAGCAGAATTGTCCTGGTTCA GAG- TTGAAA ATGCGTACGCTGCAGGTCGAC-3' 5'-GATAGTAACGGTACTTGTGAATATATGTGTATATAAAAAA AT- ATACATGTTCTAACGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR <i>VTC3</i> deletion	5'-GGATGTTAATGAGTAACCTG-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of <i>VTC4</i>	5'-GCTAACAAATCAAATGGCCAATAAAAGAGCATAACAAAGGC AG- GAACAGCTATCGTACGCTGCAGGTCGAC-3'	pFA6a-hphNT1 [2]

	5'-CTAATATGATTATTACTTAATTATAACAGTAAAAAAAACA CGCTGTGTATTCAATCGATGAATTGAGCTCG-3' 5'-TGAAAGCCAGTACCAACAG-3' 5'-GTCGACCTGCAGCGTACG-3'	
Control PCR VTC4 deletion	5'-TATCTCCATCTCAGCCCTAGGTAAGGATAGATAACGAAGGG TTGTACAATCATGCGTACGCTGCAGGTCGAC-3' 5'-CATATTTATATAGACTGTACACATGAAAAACTTTATC GTCCAAAATAATTACGATGAATTGAGCTCG-3'	pFA6a-natNT2 [2]
Deletion of VTC5	5'-CATTACACCCGTACGTAATC-3' 5'-GTCGACCTGCAGCGTACG-3'	
Control PCR VTC5 deletion	5'-CTAATAATTGAAAGTTGAGAAAATCATAATAAAATAATTACTA GAGACATGCGTACGCTGCAGGTCGAC-3' 5'-CTATAATTCGATTTAGATGTTAACGCTTCATTCTTTTC ATA- AAAAAGACTAACGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Deletion of ATG8	5'-CTAATAATTGAAAGTTGAGAAAATCATAATAAAATAATTAC TAGAGACATGCGTACGCTGCAGGTCGAC-3' 5'-GACTCCGCCTCCTTTCAAATGGATATTAGACTTAA ATGTAGACTTCATCGATGAATTCTCTGTCG-3'	pYM-pATG8 [3]
N-terminal tagging of ATG8	5'-CTAACTGTCTCCACCGATAATG-3' 5'-GTCGACCTGCAGCGTACG-3' 5'-GAACAATAGATGGCTAATGAGTCC-3' 5'-GGTTATGGTGTCAATGTTGC-3'	
Control PCR ATG8 deletion	5'-GTGACCTAGT ATTTAATCCA AATAAAATTC AAACAAAAAC CAAAACTAAC ATG CGTACGCTGCAGGTCGAC-3'	
Control PCR ATG8 tagging	5'-CTAGATGGCAGAAAAGGATAGGGCGAGAAGTAAGAAAAGT TTAGCTCA ATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Deletion of PEP4	5'-CATAATCCTGCTTGATGTGG-3' 5'-GTCGACCTGCAGCGTACG-3' 5'-ATCGCCAATAAAAAACAAACTAAACCTAATTCTAACAA GCAAAGCAGCTGAAGCTCGTACGC-3'	pUG6 [4]
Control PCR PRB1 deletion	5'-CGCCTAAAGGAAAGAAAAAGAAAAAAAAGCAGCTGAA ATTTTCTAAATGAAGAACGATAGGCCACTAGTGGATCTG-3' 5'-GAGATGGACGAGAACAGGG-3' 5'-GCGTACGAAGCTTCAGCTG-3'	
Control PCR PRB1 tagging	5'-ACCCATATTTCAAATCTCTTACAACACCAGACGAGA ATTAAGAAAATGCGTACGCTGCAGGTCGAC-3'	
Deletion of ATG1	5'-ATATAGCAGGTATTGTACTTAATAAGAAAACCATTATG CATCACTTAATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR ATG1 deletion	5'-GTAATGTAAGGAAAACCCAC-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of ATG4	5'-GTTAGTAGATGAAGAATGGACGACTTCTTACGTATAGG AG- TGATATACATGCGTACGCTGCAGGTCGAC-3' 5'-GAATATATTAAAACAAGTATATATGCTTATGAACTAGTGA TTCCTTACACTAATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR ATG4 deletion	5'-CGCCTACATCATCAAGATCAC-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of ATG7	5'-ATAACTAAAGTTCATTATTTCAACAAATATAAGATAAT CAA- GAATAAAATGCGTACGCTGCAGGTCGAC-3' 5'-CGGAAAGTGGCACCACAATATGTACCAATGCTATTATATGC AAAATATTAATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]

Control PCR ATG7 deletion	5'-TGGAACGTGCAGAAAAGGAC -3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of ATG9	5'-GACATTAAAGAACAGCCTGAAATATCAAATCACCGAATTAT TAGGTTATGCGTACGCTGCAGGTCGAC-3'	pFA6a-hphNT1 [2]
Control PCR ATG9 deletion	5'-CAGTTATATATAGTTATGGATGATGACACGACAC AG- TCTGCCTTAATCGATGAATTGAGCTCG-3'	
Deletion of ATG11	5'-CGAGCTCGAATTCATCGAT-3' 5'-TGCAAAGATGGCTCATATTG-3'	pFA6a-hphNT1 [2]
Control PCR ATG11 deletion	5'-GTGTACTGTTGTTCGGAAAGTACTCTTTATTTCT TTTATA- CATCATGCGTACGCTGCAGGTCGAC-3'	
Deletion of ATG15	5'-GATACATAATTAAAATCTTGTCAATTGTGACAAACGTTAGCA CTGTTCAATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR ATG15 deletion	5'-GCTAGCATTCCATATATCC-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of ATG22	5'-AACTGATCTAGGCATTACAATTAAAGGAAACAAGGGAAAT ATTCTATTGAATGCGTACGCTGCAGGTCGAC-3'	pFA6a-hphNT1 [2]
Control PCR ATG22 deletion	5'-CGCATAGGCCCTAAAACAAACACTAGGGTCATAATAGATGT ATGGGTCTTAATCGATGAATTGAGCTCG-3'	
Deletion of ATG19	5'-TATAATAAGCATAACATCGG-3' 5'-GTCGACCTGCAGCGTACG-3'	pFA6a-hphNT1 [2]
Control PCR ATG19 deletion	5'-GCCCTATAAGCAATAGTTGCTCATAACATATTCTCTA CATT- AGATATG CGTACGCTGCAGGTCGAC-3'	
Deletion of ATG34	5'-CCTTATATATACGTAAGCAAAGTTTATGTAACAAA AAAAAAAAAAAGAACTAATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR ATG34 deletion	5'-GTTAATCATCCTCCAGCAAAGC-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of ATG39	5'-GGTAATTGGCGCGGCACTTGCTCAGTAACGCCAA AGGAGAG- TTCTGGTAAATGCGTACGCTGCAGGTCGAC-3'	pUG6 [4]
Control PCR ATG39 deletion	5'-GTGTATGTGAAAAGGTACTCATTGCTGTATAAAAAA TAGAGTTT- GACCTAATCGATGAATTGAGCTCG-3'	
Deletion of APL5	5'-CGCGTTCATTGAGAAGC-3' 5'-GTCGACCTGCAGCGTACG-3'	pFA6a-hphNT1 [2]
Control PCR APL5 deletion	5'-GTAAATAAGTACTATAGCCAAGAAACTGGAAGAATA AAAAAAAGCATGCATAGGCCACTAGTGGATCTG-3'	
Deletion of APM3	5'-GAAACTAGTCCTATAGGTGAGTGTCTATCAA AATTACGGA- GACGCCAGCTGAAGCTCGTACGC-3'	pFA6a-hphNT1 [2]
Control PCR APM3	5'-GGCGTATCCTTCGACAGTG-3' 5'-GCGTACGAAGCTTCAGCTG-3'	
Deletion of APL5	5'-GCAGTGACGATAATAGAGACTAGTAAAACAGTCGAGTTGT CGGACCTAAAATGCGTACGCTGCAGGTCGAC-3'	pFA6a-hphNT1 [2]
Control PCR APL5 deletion	5'-CGTGCATATTGCTTCGCCG-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of APM3	5'-CTGAAGTGGG AAAGGCAGTGCCACAACCAGAACGATA ACATATTGTCATGCGTACGCTGCAGGTCGAC-3'	pFA6a-hphNT1 [2]
Control PCR APM3	5'-TACGTACGTAATCGCTGTCAATTGAGAATTACGACTTCG ATTTTTTATCGTTAACGATGAATTGAGCTCG-3'	
Deletion of APM3	5'-CGAAGCTTTCATCCTAACGAAC-3' 5'-GTCGACCTGCAGCGTACG-3'	pFA6a-hphNT1 [2]
Control PCR APM3	5'-GACTTGGGCA ACAACAGAGGCTGAAACCTTACCAACCCA AC- CAAATAG ATGCGTACGCTGCAGGTCGAC-3'	

	5'-TCATTATATTCTATTAGTTCGCATGGAATTCAAGTA CACATA- TAACTAATCGATGAATTGAGCTCG-3' 5'-CAGTAATTGCATTACAACCTGTG-3' 5'- GTCGACCTGCAGCGTACG-3'	pFA6a-hphNT1 [2]
Control PCR <i>APM3</i> de- letion	5'-CTTGCAGTATCACAAACAGCAACCACGTTCATAGTCTGAA ATACGTACAAATGCGTACGCTGCAGGTCGAC-3' 5'-GTATTAGTAGATATTCTTAAGGCATATTGCCCGAG AGC- TATTCAATCGATGAATTGAGCTCG-3'	
Deletion of <i>PHO23</i>	5'-ATCAGGCCCTTAGACCGCT-3' 5'-GTCGACCTGCAGCGTACG-3'	
Control PCR <i>PHO23</i> de- letion	5'-CGATGTGCCCTTGATGGACAACAAACAAACAGCTCTTCC GGCCGTACTCGTACGCTGCAGGTCGAC-3' 5'-CTCTATGTGTTATTAGAACTACGGTGATAAAGAGCTCGT TCCGATCACTAACATCGATGAATTGAGCTCG-3'	pYM27 [2]
C-terminal tagging of <i>SNA3</i>	5'-GTCGACCTGCAGCGTACG-3' 5'-GCACGTGATG AAGGCTCGTT-3'	
Control PCR <i>SNA3</i> tag- ging	5'-ACCTTAGTTGGGGGCAGTTTCTGGCAATACAAAG TTA CTTTGATGCGTACGCTGCAGGTCGAC-3' 5'-CATTATTATTACACTTATTATTTCTTGTACAGTCACAG TAACACTCTAACATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Deletion of <i>VPS24</i>	5'-CGCAACTCCCCTTCAACTCCCATA-3' 5'-GTCGACCTGCAGCGTACG-3'	
Control PCR <i>VPS24</i> de- letion	5'-ATGGAAGACAAAAATAAAGCAGCATAGACTGCCTATAGTAGA TGGG GTACAAATGCGTACGCTGCAGGTCGAC-3' 5'-TTTTTATTTCATGTACACAAGAAATCTACATTAGCACGTTAA TCAATTGACTAACATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Deletion of <i>VPS4</i>	5'-CAGTCGCCAACGACCAGT-3' 5'-GTCGACCTGCAGCGTACG-3'	
Control PCR <i>VPS4</i> dele- tion	5'-ATAGTACAGACTGCTGAATTAACTCCACTT GGTGCTTTG TATA- TATCGA ATG CGTACGCTGCAGGTCGAC-3'	
Deletion of <i>VPS20</i>	5'-CTATTACATTCCCTTATTAACTTGAAGCTACATACAGA CATTCA ATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR <i>VPS20</i> de- letion	5'-GAGGGTTCTCTAACGCTGT-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of <i>MON1</i>	5'-GAATAAAAAGTCTATCAAAGTACACAAACGTAGAACAGTA CATCGGAACTATGCGTACGCTGCAGGTCGAC-3' 5'-GATATATTACAAATTAAAGGAAAAATAATAAAATAACCTCC CTGTCACAAGTTAACATCGATGAATTGAGCTCG-3'	pFA6a-natNT2 [2]
Control PCR <i>MON1</i> de- letion	5'-CGAAAAGCAGTTCAAGCTCAC-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of <i>YPT7</i>	5'-CCACTTCTTATCCATATAGA AACCCCTTCTGTATCAATT AAATTAAGTGTGCGTACGCTGCAGGTCGAC-3' 5'-AAGGATACGCTATAAAGGATTACATAATAGAAGATAACAAT TAAGTAGTACAGCTAACATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR <i>YPT7</i> dele- tion	5'-TATATACGGGCAGCTCCGTA-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of <i>RIM15</i>	5'-TTTCTCTGCCTCATTGATAGAATAGATAAGCCAGTAGA GGAAGACAGATGCGTACGCTGCAGGTCGAC-3' 5'-TTTCAAGCAAAGTTTATTCAAGTTATTCTTAAATTATCT TTATCTAAAATTATCAATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]

Control PCR <i>RIM15</i> deletion	5'-CTAATATATACTGAATGTAGGGAGC-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of <i>PHO80</i>	5'-CAAATTAAAGTCTGCAAGCTATCATAAGACGAGGATATCC TTT- GGAGACTCATAGAAATCATGCGTACGCTGCAGGTCGAC-3' 5'-TGGAAAGTTTAATTGCTCAATCATGATTGCTTCA TAA- TACCCCACGAAAAATCATTA ATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR <i>PHO80</i> deletion	5'-TTAACGAATTATGGTATTCT-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of <i>PHO81</i>	5'-CTTTTGAGAGAATAACCCTTGGAGGCAACATAGATAGA TAAACGTGCAATGCGTACGCTGCAGGTCGAC-3' 5'-AAAAGTTTCTAAATAATGTATAAGATTCAAA AC- TACATATTACAGAACTTAATCGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR <i>PHO81</i> deletion	5'-CTAATTGCATCAGCCTATCTTC-3' 5'-GTCGACCTGCAGCGTACG-3'	
Deletion of <i>PHO85</i>	5'-CAGATAAGGGATATAGCGCGCAAACCTGGCAAAC TTGAG- CAATACCAATGCGTACGCTGCAGGTCGAC-3' 5'-ATTATTATCATTATATACATGGCTACGGTTTTGCT GAC- GGGCTGCGTTAACGATGAATTGAGCTCG-3'	pFA6a-hphNT1 [2]
Control PCR <i>PHO85</i> deletion	5'-GTCATTGTTGAGAGAAAAGGAG-3' 5'-GTCGACCTGCAGCGTACG-3'	
RT-qPCR		
<i>PHO84</i>	5'-AGCTTGGGTCAAATCTCCG-3' 5'-TCAGCACCAAGAGTTGCGTA-3'	
<i>PHO89</i>	5'-CCAGTGCTTGATTGGCTCG-3' 5'-GCGCCAATTGTACCACCAAC-3'	
<i>PHO87</i>	5'-ATGGGGTTGGCTTCATCTGG-3' 5'-AGCGCCTACAGTTAGCCATC-3'	
<i>PHO90</i>	5'-GTGGGTACTTCGTCTCGCA-3' 5'-TAGGAGCAGCTTGGGTTG-3'	
<i>UBC6</i>	5'-GGACGTTCAAGCCCAACAC-3' 5'-TGAGACAGACCAGCCAGGAT-3'	

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