Supplemental Materials

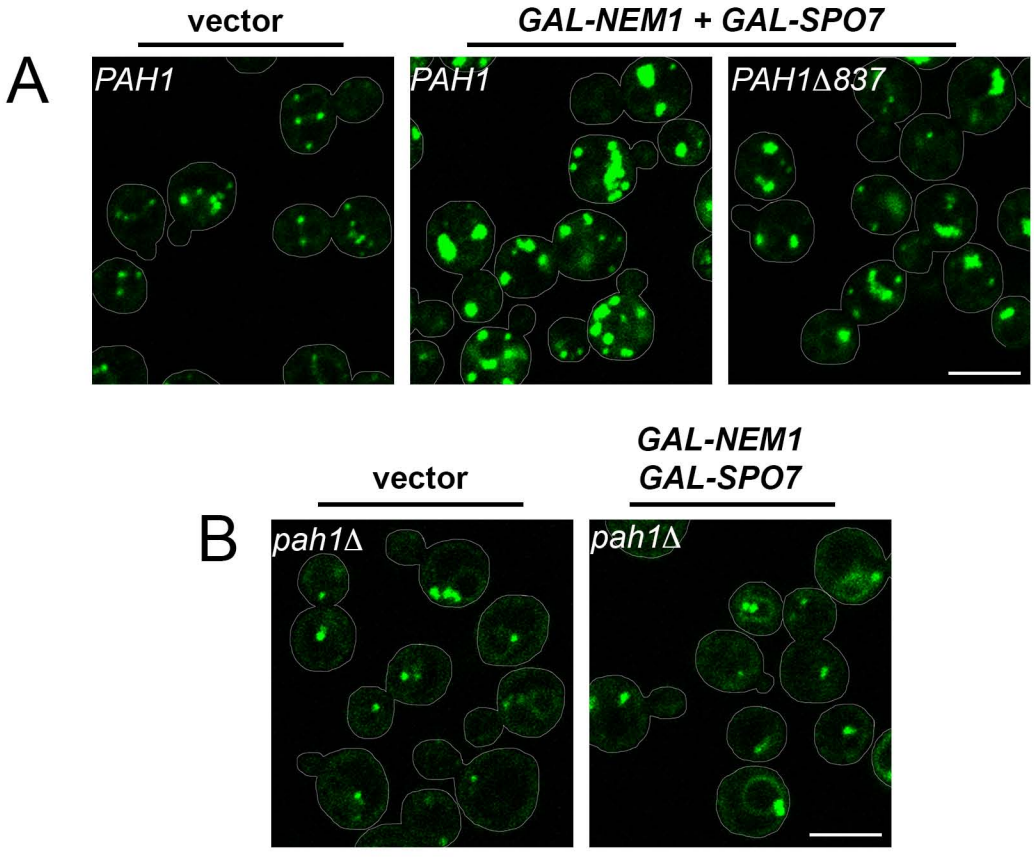
Molecular Biology of the Cell
Karanasios et al.

Table S1

Plasmid	Description	Ref./source
YCplac111-*PAH1-PtA*	*PAH1-PtA* under control of the *PAH1* promoter in *CEN/LEU2* vector	Santos-Rosa *et al*., (2005)
pRS313-*GAL1/10-NEM1-Myc*	*NEM1-Myc* under control of the *GAL1/10* promoter in *CEN/HIS3* vector	This study
YEp352-*GAL1/10-SPO7*	*SPO7* under control of the *GAL1/10* promoter in 2μ/*URA3* vector	This study
YCplac33-*GAL1/10-NEM1*	*NEM1* under control of the *GAL1/10* promoter into *CEN/URA3* vector	Han *et al*., (2008)
pRS313-*GAL1/10-SPO7*	*SPO7* under control of the *GAL1/10* promoter into *CEN/HIS3* vector	Han *et al.*, (2008)
pASZ11-*GAL1/10-NEM1*	*NEM1* under control of the *GAL1/10* promoter into *CEN/ADE2* vector	This study
YCplac111-*PAH1 Δ722-PtA*	*PAH1-PtA* C-terminal truncation ending at residue 722, under control of the *PAH1* promoter in *CEN/LEU2* vector	This study
YCplac111-*PAH1 Δ664-PtA*	*PAH1-PtA* C-terminal truncation ending at residue 664, under control of the *PAH1* promoter in *CEN/LEU2* vector	This study
YCplac111-*PAH1 Δ595-PtA*	*PAH1-PtA* C-terminal truncation ending at residue 595, under control of the *PAH1* promoter in *CEN/LEU2* vector	This study
YCplac111-*PAH1 Δ[3-109]-PtA*	*PAH1-PtA* lacking residues 4 to 108, under control of the *PAH1* promoter in *CEN/LEU2* vector	This study
YCplac111-*PAH1 Δ[108-339]-PtA*	*PAH1-PtA* lacking residues 109 to 338, under control of the *PAH1* promoter into *CEN/LEU2* vector	This study
YCplac111- *PAH1 Δ837-PtA*	*PAH1-PtA* C-terminal truncation ending at residue 837, under control of the *PAH1* promoter into *CEN/LEU2* vector	This study
YCplac111- *PAH1 Δ798-PtA*	*PAH1-PtA* C-terminal truncation ending at residue 798, under control of the *GAL1/10* promoter into *CEN/LEU2* vector	This study
YCplac111- *PAH1 Δ755-PtA*	*PAH1-PtA* C-terminal truncation ending at residue 755, under control of the *GAL1/10* promoter in *CEN/LEU2* vector	This study
YCplac111- *PAH1 D3A-PtA*	*PAH1-PtA* with D851A D852A D853A mutations, under control of the *PAH1* promoter into *CEN/LEU2* vector	This study
YCplac111- *PAH1 D398A D400A-PtA*	*PAH1-PtA* with D398A D400A mutations, under control of the *PAH1* promoter in *CEN/LEU2* vector	This study
YCplac111- *PAH1 G80R-PtA*	*PAH1-PtA* with G80R mutation, under control of the *PAH1* promoter in *CEN/LEU2* vector	This study
YCplac111-Lipin 2-PtA	Lipin 2 (mouse)-PtA, under control of the *PAH1* promoter in *CEN/LEU2* vector.	This study
YCplac111-Lipin 2-Pah1ShortC-PtA	Lipin 2 fused to the 26 C-terminal residues of Pah1p (837-862) and PtA,	This study

	under control of the *PAH1* promoter in *CEN/LEU2* vector.	
YEplac181-Lipin 2-Pah1LongC-PtA	Lipin 2 fused to the 277 C-terminal residues of Pah1p (586-862) and PtA, under control of the *PAH1* promoter in 2μ/*LEU2* vector.	This study
YEplac195- P_{NOP1} CTD1NEP1-Myc	CTD1NEP1 (human)-Myc under the control of *NOP1* promoter in 2μ/*URA3* vector	This study
pRS423- P_{NOP1} NEP1R1	NEP1R1 (human) under the control of *NOP1* promoter in 2μ/*HIS3* vector	This study
YCplac111-*PAH1-GFP*	*PAH1-GFP* under control of the *PAH1* promoter in *CEN/LEU2* vector	Karanasios *et al*., (2010)
YCplac111-*PAH1 Δ837-GFP*	*PAH1 Δ837-GFP* under control of the *PAH1* promoter in *CEN/LEU2* vector	This study
YCplac111-P_{NOP1} *PAH1-GFP*	*PAH1-GFP* under control of the *NOP1* promoter in *CEN/LEU2* vector	This study
YCplac111-P_{NOP1} *AT-GFP*	*PAH1* acidic tail residues (838-862)-GFP under the control of *NOP1* promoter in *CEN/LEU2* vector	This study
YCplac111-P_{NOP1} *-GFP*	GFP under control of *NOP1* promoter in *CEN/LEU2* plasmid	This study
YCplac111-*PAH1*	*PAH1* under control of the *PAH1* promoter in *CEN/LEU2* vector	Santos-Rosa *et al.*, (2005)
YCplac111-*PAH1 Δ837*	*PAH1 Δ837* under control of the *PAH1* promoter in *CEN/LEU2* vector	This study
YCplac111-*PAH1 D3A*	*PAH1* with D851A D852A D853A mutations, under control of the *PAH1* promoter into *CEN/LEU2* vector	This study
YCplac111-*NEM1*	*NEM1* under control of the *NEM1* promoter in *CEN/LEU2* vector	This study
YEplac181-*GAL1/10-PAH1*	*PAH1* under control of the *GAL1/10* promoter in 2μ/*LEU2* vector	Santos-Rosa *et al*., (2005)
YEplac181-*GAL1/10-PAH1-7A*	*PAH1 7A* under control of the *GAL1/10* promoter in 2μ/*LEU2* vector	O' Hara *et al*., (2006)
YEplac181-*GAL1/10-PAH1 Δ837-7A*	*PAH1 Δ837-7A* under control of the *GAL1/10* promoter in 2μ/*LEU2* vector	This study
YCplac111-*PAH1 Δ837-7A*	*PAH1 Δ837-7A* under control of the *PAH1* promoter in *CEN/LEU2* vector	This study

Figure S1



Supplemental Figure 1. Pah1p acidic tail-dependent changes in lipid droplet biogenesis visualized by BODIPY labeling. (A) *pah1Δ* cells expressing *PAH1* or *PAH1Δ837* were transformed with *GAL-NEM1* and *GAL-SPO7*, or the corresponding empty vectors, transferred from raffinose to galactose-containing medium and grown for five hours before imaging. Cells were labeled with BODIPY 493/503 and imaged by confocal microscopy. Representative single Z-plane for each strain is shown. Bar, 5μm. (B) *pah1Δ* cells transformed with *GAL-NEM1* and *GAL-SPO7*, or the corresponding empty vectors, were grown in galactose-containing medium and imaged as in A. Bar, 5μm. In all panels, the cell outlines are depicted.