

Table S3. Genomic fragments identified from the high copy suppressors for *ypt6Δ*.

Chromosomal Position	Number of isolates	ORFs	Descriptions of proteins expressed by the potential suppressors genes (membrane traffic and autophagy regulators)
XII:666378..674078	1	<i>VPS63, YPT6, TMA7, RED1, RPS28B</i>	Rab family GTPase; Ras-like GTP binding protein involved in the secretory pathway, required for fusion of endosome-derived vesicles with the late Golgi.
XVI 266824..272516	1	<i>YPL150W, ATG5</i>	Undergoes conjugation with Atg12p to form a complex involved in Atg8p lipidation.
IV 924504..930158	1	<i>IVY1, COX20, HEM1</i>	Phospholipid-binding protein that interacts with both Ypt7p and Vps33p, localizes to the rim of the vacuole as cells approach stationary phase.
XII:434079..453601	1	<i>PEP3, YLR149c, PCD1, YLR152c, ACS2, RNH203</i>	Component of CORVET membrane tethering complex; vacuolar peripheral membrane protein that promotes vesicular docking/fusion reactions in conjunction with SNARE proteins, required for vacuolar biogenesis.
III:8145..14287	1	<i>VBA3</i>	
IV:829784..836624	1	<i>ATC1, UPS3, YDR186c</i>	
VII:33417..36181	1	<i>PDE1, ZIP2</i>	
XII:461554..462885	1	<i>YLR154C-G</i>	
XIII:29734..34906	1	<i>NGL3, TML119w</i>	
XVI:832730..840723	1	<i>PIN3, NCA2, TPO3</i>	