

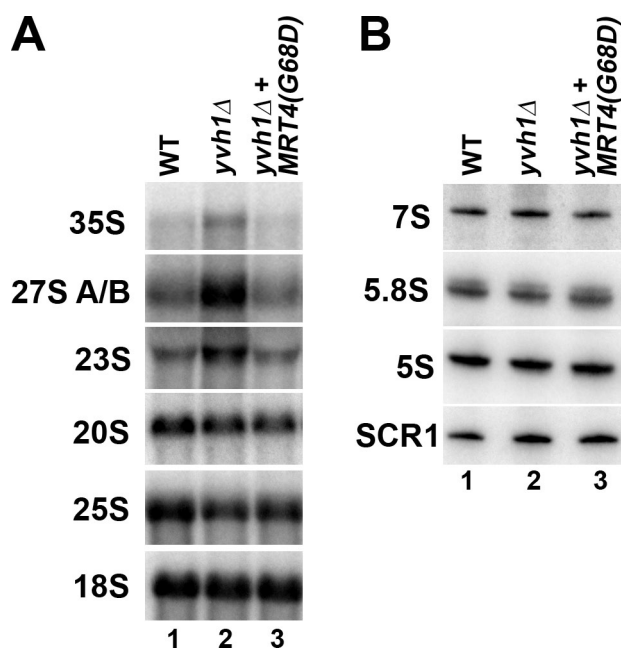
Lo et al., <http://www.jcb.org/cgi/content/full/jcb.200904110/DC1>

Figure S1. **Northern blot analysis of rRNA-processing intermediates.** The yeast strains BY4741 and AJY2976 (*yvh1*Δ) with empty vector or pAJ2461 (*MRT4*G68D) were cultured at 30°C until early log phase. Total RNA was prepared, and the various rRNAs and processing intermediates were detected by Northern blotting using P³²-labeled oligonucleotides as described previously (Kallstrom et al., 2003. *Mol. Cell. Biol.* 23:4344–4355). WT, wild type.

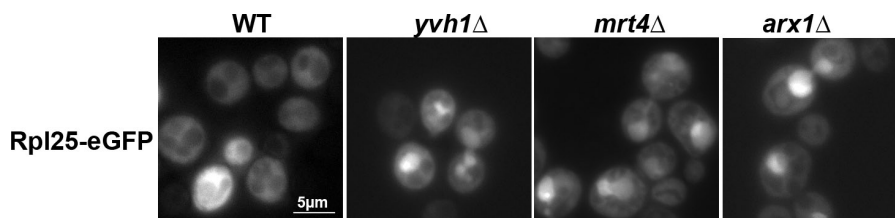


Figure S2. ***yvh1*Δ and *mrt4*Δ mutant cells display a 60S export defect.** Rpl25-GFP (pAJ908) was monitored in AJY2976 (*yvh1*Δ), AJY2551 (*mrt4*Δ), and AJY1901 (*arx1*Δ). WT, wild type.

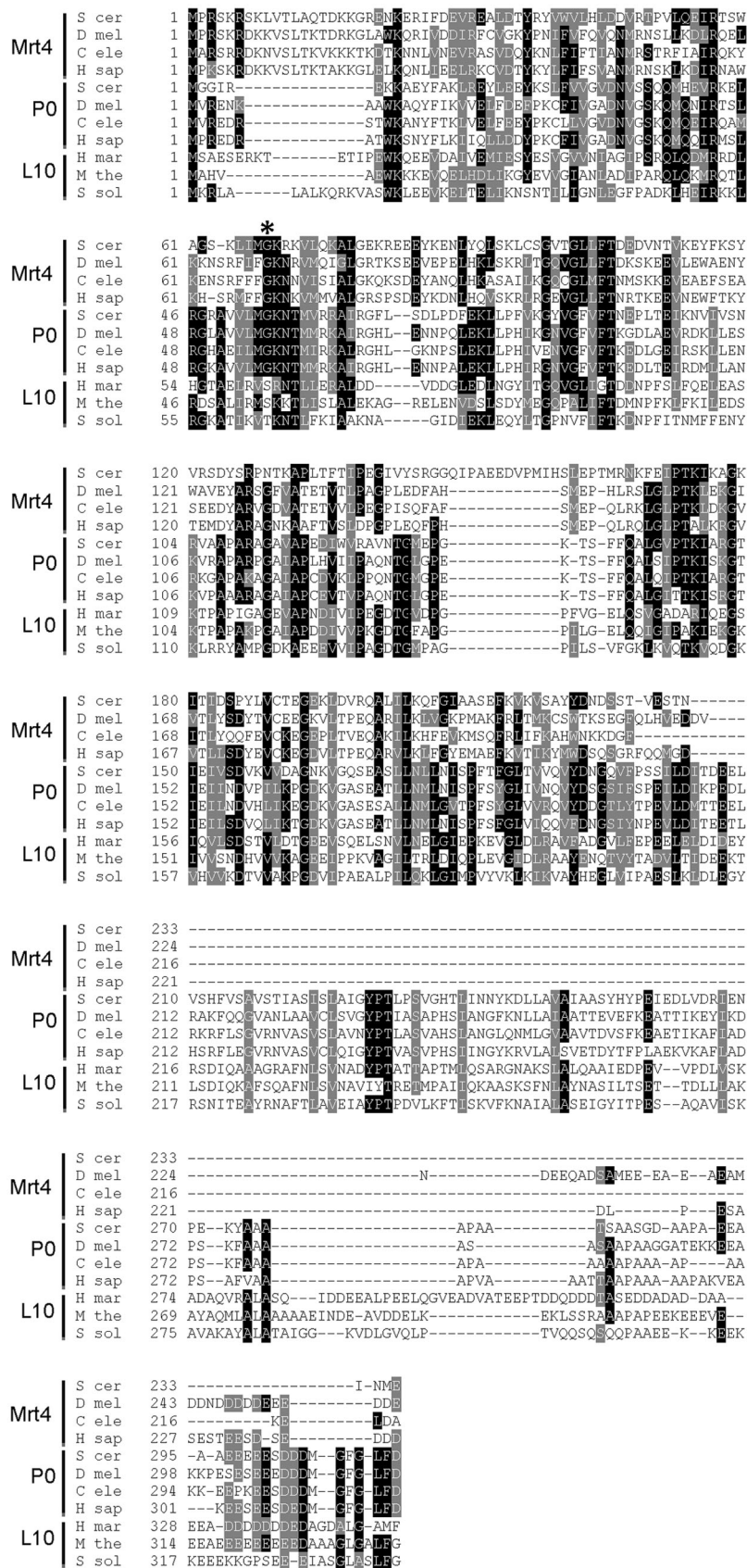


Figure S3. **Multiple sequence alignment of Mrt4, PO, and L10.** Multiple sequence alignment was performed on the amino acid sequences of Mrt4, PO, and L10 from different organisms using ClustalW and BoxShade. *S. cer*, *Saccharomyces cerevisiae*; *D. mel*, *Drosophila melanogaster*; *C. ele*, *Caenorhabditis elegans*; *H. sap*, *Homo sapiens*; *H. mar*, *Haloarcula marismortui*; *M. the*, *Methanothermobacter thermautotrophicus*; *S. sol*, *Sulfolobus solfataricus*. The position of Gly68 is indicated by an asterisk.

Table S1. Oligonucleotides used in this study

Oligo	Sequence
Used in cloning	
AJO1148	5'-CTGGAGCTCCCATATTAAGAGGCCAGGTG-3'
AJO1149	5'-CAGTTAATTAAGAGGAATTGGACTAGGGAGA-3'
AJO1182	5'-CAGTTAATTAATCTATTACTTTCTCGGATTCA-3'
AJO1192	5'-CAAGAAATTACAGGGACCATGGACTTGATAAATTAAG-3'
AJO1193	5'-AGTCCATGGTCCCTGTAATTTCTTGCT-3'
AJO1194	5'-CGCTTAATTAATGATCCGCGACGACTCCGAATCTTT-3'
AJO1195	5'-CAAGCAGGCCTCTCGAGATC-3'
AJO1196	5'-TCTCGAGAGGCCTGCTTGAGAATGAGCAAAAAC-3'
AJO1227	5'-CTGGAGCTCTAAAGCTATTCCCCTTTCC-3'
AJO1228	5'-CTGTAATTAATCCATGTTGATGTTAGTGC-3'
AJO1229	5'-CTGGGATCCTCTGCTCTCACGTTCTTCC-3'
AJO1236	5'-GGCAGGCTCTAAGTTAATTATGGATAAGAGGAAAGTTTACAAAAAG-3'
AJO1237	5'-CTTTTGTAAAACCTTCTTATCCATAATTAAGAGCCTGCC-3'
AJO1275	5'-GCTCCAAAGAAGAAGAGAAAGGTCGCTGGAAATGCAAACTCAG-3'
AJO1276	5'-CCTTCTCTTCTTTGGAGCCATGGTCCCTGTAATTTCTTG-3'
DUSP12-F2	5'-TAGAACTAGTGGATCCATGTTGGAGGCTCCGGGC-3'
DUSP12-R2	5'-CGGTATCGATAAGCTTTCATATTTTCTGTTGTGATCCCA-3'
MRTO4-F2	5'-TAGAACTAGTGGATCCATGCCAAATCCAAGCGC-3'
MRTO4-R2	5'-AATTACATGACTCGAGTCAGTCATCATCTTCTGAGTCTG-3'
Flag-1	5'-CTAGATGGACTACAAAGACCATGACGGTGATTATAAA-3'
	5'-GATCATGACATCGATTACAAGGATGACGATGACAAGA-3'
Flag-2	5'-CTAGTCTTGTATCGTCATCCTTGTAAATCGATGTCATGAT-3'
	5'-CTTTATAATCACCGTCATGGTCTTTGTAGTCCAT-3'
Used in Northern blotting	
AJO249	5'-TCTGGTAGATATGGCCGCAACC-3'
AJO190	5'-GTCTGGACCTGGTGAGTTTCCC-3'
AJO130	5'-TCTTGGCCAGTAAAAGCTCTCATGC-3'
AJO603	5'-TGTTACCTCTGGGCCCGATTG-3'
AJO313	5'-TCCAGTTACGAAAATCTTGTTTTGGACAA-3'
AJO191	5'-CGCTGCGTTCTTCATCGATGCG-3'
AJO282	5'-GGCCAGCAATTTCAAGTTA-3'
AJO214	5'-GTTGCGCTAGACGCTCTCTTC-3'
AJO192	5'-CCCGCCGTTTACCCGCGCTTGG-3'
AJO317	5'-CGTGTCTAGCCGCGAGGAAGGATTGTTCC-3'
AJO962	5'-GCGACCAAAGTAAAAGTCAAGAACGACTCCACAAGTGCGAGGGTCGCGAC-3'