Figure S1:

The yeast pre-rRNA processing pathway.

A) The 35S pre-rRNA contains the sequences of the mature 18S, 5.8S and 25S rRNAs, which are separated by internal transcribed spacers 1 and 2 (ITS1 and ITS2) and flanked by the 5’ and 3’ external transcribed spacers (5’ETS and 3’ETS). B) A complex processing pathway converts this precursor to the mature rRNAs. During this maturation the rRNA regions will assemble with the 80 ribosomal proteins, and the pre-rRNAs will transiently associate with ~170 known processing and assembly factors. In the 60S synthesis pathway the 5.8S and 25S rRNAs are matured within the nucleus prior to subunit export. However, during 40S synthesis, the mature 18S rRNA is generated only after subunit export to the cytoplasm. Alternative processing pathways generate the long and short forms of the 5.8S rRNA.