Supplementary Materials

Human nucleolar protein Nop52 (RRP1/NNP-1) is involved in site 2 cleavage in internal transcribed spacer 1 of pre-rRNAs at early stages of ribosome biogenesis

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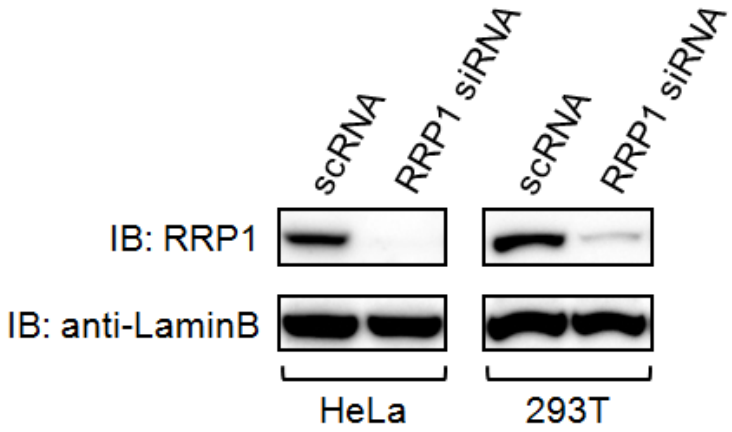
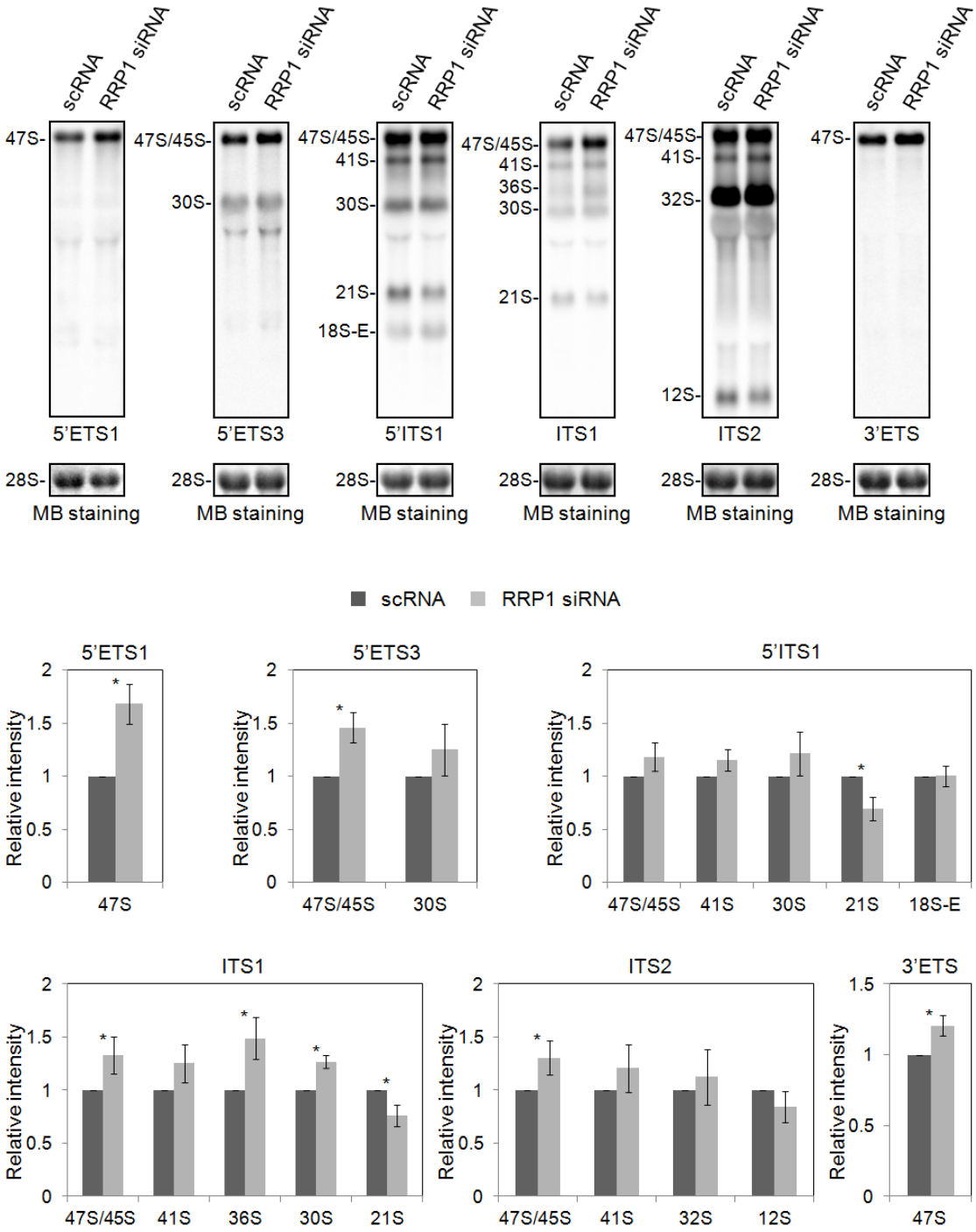
Supplementary Figure 1



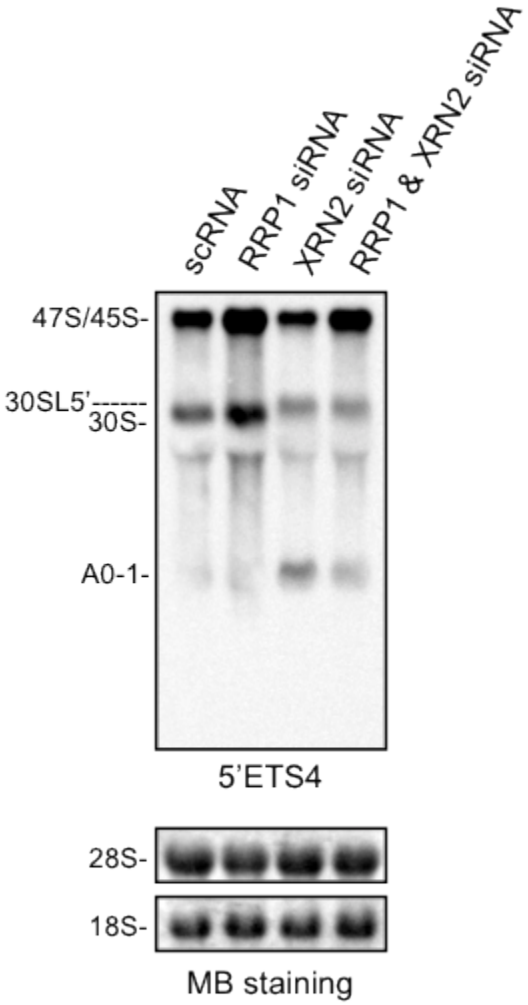
Total protein from HeLa or 293T cells (20 μg/lane) treated with scRNA or RRP1 siRNA was analyzed by immunobloting (IB) with anti-RRP1 or anti-LaminB.

Supplementary Figure 2



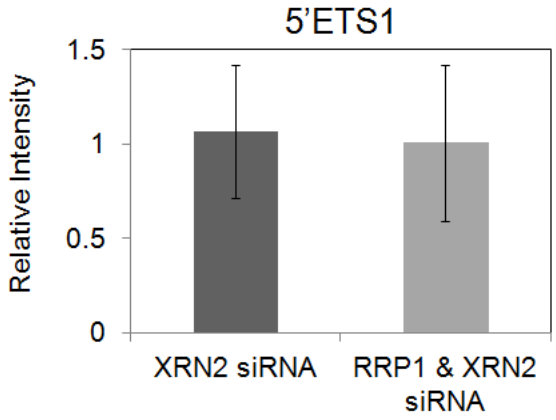
Pre-rRNA intermediates isolated from 293T cells treated with scRNA or RRP1 siRNA were detected by northern blot analysis (top) and quantified (bottom) as in Figure.3B and C.

Supplementary **Figure 3**



The A0-1 fragment was detected by northern blot analysis with 5'ETS4 probe (Figure. 3A) in XRN2-depleted cells and in RRP1-XRN2-co-depleted cells.

Supplementary Figure 4



The ratio of the 30SL5' pre-rRNA and 5'-01 fragment detected by 5'ETS1 probe (Figure 4B) are shown for XRN2-depleted cells and RRP1-XRN2-co-depleted cells. The intensities of 30SL5' and 5'-01 were quantified, and normalized to the amount of 28S rRNA. The values are average (± SD) of three independent experiments.