**Fig. S1.** Curvature propensity and bendability plot of 5'-flanking DNA sequences of 4.5S1 RNA genes. Predicted curvature and bendability are shown in red and green, respectively. Positions of nucleotides with respect to the transcription start site are shown on the X-axis. **A** and **B**, mouse genes Mmu1' and Mmu2, respectively. **C** and **D**, rat genes Rno1 and Rno3, respectively. **E** and **F**, gene Mmu1' with the conserved pentanucleotide AGAAT replaced with TTTTT and TCATG, respectively. Note the minimum of bendability between positions -14 and -18; it corresponds to the conserved pentanucleotide AGAAT.

The bend.it server ([http://pongor.itk.ppke.hu/dna/bend_it.html#/bendit_intro](http://pongor.itk.ppke.hu/dna/bend_it.html#/bendit_intro)) was used to predict the curvature propensity and bendability (Vlahovicek, K., Kaján and Pongor, S. (2003): "DNA analysis servers: plot.it., bend.it, model.it and IS" Nucleic Acids Res., 31(13), 3686-7). Window size was 6.