Supporting Information

Yi *et al.* 10.1073/pnas.0810766105

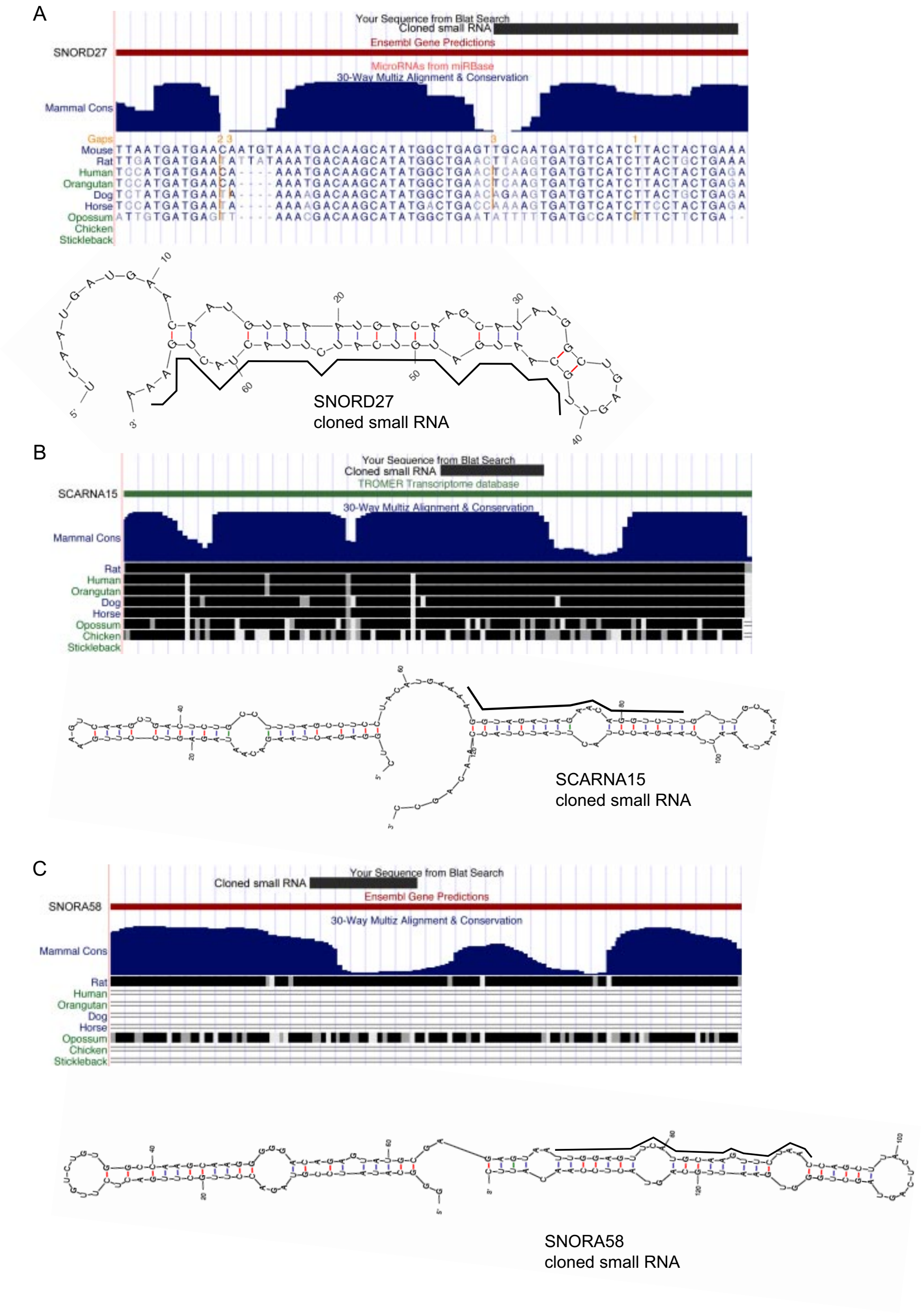
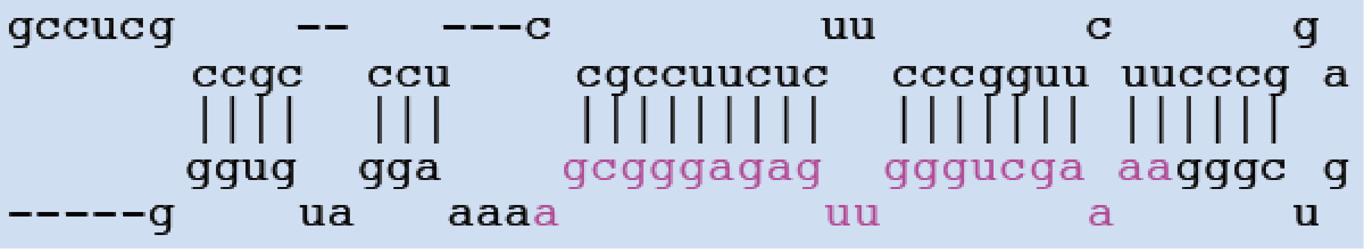


Fig. S1. Genomic organization and predicted secondary structures for top three most abundantly expressed sn/snoRNA-derived small RNAs. (*A*) SNORD27 is a C/D box, small nucleolar RNA. The cloned small RNA is located at the 3′arm of the predicted hairpin. (*B*) SCARNA15 is a H/ACA box, small Cajal body-specific RNA. The cloned small RNA is located at the 5′arm of the right hairpin. Note the conservation is restricted to the stem-forming bases but not the loop region. (*C*) SNORA58 is a H/ACA box, small nucleolar RNA. The cloned small RNA is located at the 5′arm of the right hairpin. Lines mark the positions of cloned small RNAs in each hairpin.

A

Pre-miR-320 (extracted from miRBASE)



```
gccucg    --   ---c         uu       c      g
      ccgc  ccu    cgccuucuc  cccgguu uucccg a
      ||||  |||    |||||||||  ||||||| ||||||
      ggug  gga    gcgggagag  gggucga aagggc g
-----g    ua   aaaa         uu       a      u
```

B

Pre-miR-484 (extracted from miRBASE)

```
cu    ag  u        ucccgauaaaccuca
  cguc  gc cagucccc               a
  ||||  || ||||||||
  gcgg  cg gucggggg               a
au    --  -        auccauucuggaua
```

Fig. S2. Secondary structure of premiR-320 and premiR-484 was predicted by miRBase. Whereas premiR-320 (*A*) folded into a prototypical hairpin, premiR-484 (*B*) was predicted to fold into a structure uncharacteristic of microRNA precursor. Highlighted sequences are mature microRNA.

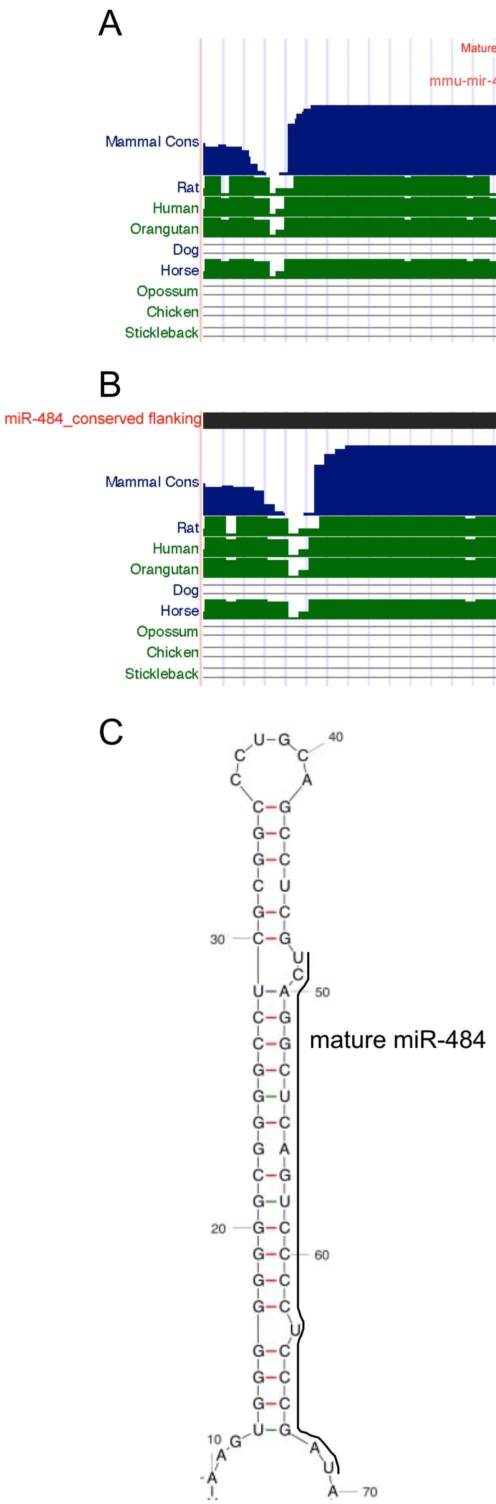


Fig. S3. Evolutionarily conserved flanking sequences of miR-484 are predicted to fold into a hairpin structure characteristic of prototypical microRNAs. (*A*) The annotated sequences of miR-484 precursor only partially overlap with the conserved sequences flanking mature miR-484. (*B*) Conserved sequences that flank mature miR-484. (*C*) The conserved flanking sequences are predicted to fold into a hairpin structure characteristic of prototypical microRNAs. The line marks mature miR-484 in 3′ arm of the hairpin.

Other Supporting Information Files

Table S1 (PDF)
Table S2 (PDF)
Table S3 (PDF)