S3_Fig.

A. **Pairwise alignment of human and mouse FGF9 3' UTR near the microRNA 140-5p target site.**

```
hFGF9 3'UTR 5' uugagcccuuaaaaaaguAACCACUauaaa-
gguuucacgcgguggguucuuauugauucgcugug
                |||||||||||||.| ||||||||||||
|.|||||.||||||||||||||||||||.||.|||
mFgf9 3'UTR 5' uugagcccuuaaaaca-
uAACCACUauaaaugcuuucaugcgguggguucuuauugauuagcagug
```

B. **Pairwise alignment of human and mouse *FGF9* 3' UTR near the microRNA 328-3p target site.**

```
hFGF9 3' UTR  5'
cuccuggagggcugccuAGGGCCAcuugcuugauuuaucaugagagaagaggagagagagagaga

||||||||||||||||||||||||||||||||||||.|..|.||.||.||||||||...|.|.
mFgf9 3' UTR  5'
cuccuggagggcugccuAGGGCCAcuugcuugauuuauuacaaaagcaggggagagaggcugcgg
```

C. **miR-140-5p target site in the mouse *Fgf9* 3' UTR**

```
5' cAGUGGUUUuacccuaugguag 3'     mmu-miR-140-5p

5' agcCCUUAAAACAUAACCACUa 3'     Fgf9
      || ||     | |||||||
3' gauGGUAUCCCAUUUUGGUGAc 5'     mmu-miR-140-5p
                 |||||||||
            5' AAACCACT   3'     anti-miR tiny LNA-140 sequence
```

D. **miR-140-5p target site in the human *FGF9* 3' UTR**

```
5' cAGUGGUUUuacccuaugguag  3'    hsa-miR-140-5p

5' agcCCUUAAAAAAGUAACCACUa 3'    FGF9
      || ||     |: |||||||
   gauGGUAUCCCAUU-UUGGUGAc 5'    hsa-miR-140-5p
                 |||||||||
            5' AAACCACT   3'     anti-miR tiny LNA-140 sequence
```

E. **miR-328-3p target site in the mouse *Fgf9* 3' UTR**

```
5' cUGGCCCUCucugcccuuccgu  3'    mmu-miR-328-3p

5' ccuGGAGGGCUGCCUAGGGCCAc 3'    Fgf9
      |:||||| |    |||||||
3' ugcCUUCCCGUC-UCUCCCGGUc 5'    mmu-miR-328-3p
                 |||||||||
            5' GAGGGCCA   3'     anti-miR tiny LNA-328 sequence
```

F. **miR-328-3p target site in the human *FGF9* 3' UTR**

```
5' cUGGCCCUCucugcccuuccgu  3'    hsa-miR-328-3p

5' CCTCCUGGAGGGCUGCCUAGGGCCAc 3'   FGF9
         |:||||| |    |||||||
3'    ugcCUUCCCGUC-UCUCCCGGUc 5'   hsa-miR-328-3p
                   |||||||||
              5' GAGGGCCA   3'     anti-miR tiny LNA-328 sequence
```

Yellow= microRNA binding site (MBS) or UTR target sequence
Cyan= microRNA Seed sequence
Green= anti-miR tiny LNA sequence