**SUPPLEMENTARY TABLES**

**Supplementary Table 1. Primer sequences for PCR and qRT-PCR.**

| Gene               | Forward primers (5'→3')       | Reverse primers (5'→3')       |
|--------------------|-------------------------------|-------------------------------|
| Mmu-XIST           | GTCAGCAAGAGCCTTGAAATTG        | TTTGCTGACTTGGAGGAGAATC        |
| Mmu c-Fos          | TGGCTGGTGACGACCTCTCT          | GGTTCATCCCGTCTGCG            |
| Mmu-GAPDH          | GGG AAGCCCATCACCATCTTC        | AGAGGGGCCCATCCACAGTCT        |
| Mmu-miR-101a-3p    | TGGAAGAAGAGAAGAAGAAGAAGAAGA  | TGGAAGAAGAAGAAGAAGAAGAAGAAGA|
| Mmu-U6             | CGCTTCAGAAATTCTGGGTGTAT       | GCTGCGACACATATACTAAAAAT      |

**Supplementary Table 2. Regent for transfection.**

| Regent            | Sense (5'→3')     | Antisense (5'→3')       |
|-------------------|-------------------|-------------------------|
| XIST siRNA1       | GCACUUUCUUUGUCAAAU | AUUUGACAAGAGAAGGUC       |
| XIST siRNA2       | GCUCUUCAUUUGGACUUU | UUAAGUCCAAAGUAGAAGUC     |
| XIST siRNA3       | AUAACAGUAAGUGAAGAAGA | UGUCCUCUAUCAGACUUACUGUAA |
| siRNA control     | UUACUCAUUGUCAUACAGGUG | CACCUGUGUUAUGACUGAGAUA |
| miR-101a-3p mimics | UACAGUACUGUGAUACUGAA | UUCAGUUAUCAGUACUGUA      |
| NC mimics         | UUCUCGGACGGUGUCACGUTT  | ACGUACAGUUUCGGAGAATT     |
| miR-101a-3p inhibitor | TTATCACAGTACTGT    |                          |
| NC inhibitor      | ACGTCTATACGGCCA     |                          |