**Table S4. Real-time RT-qPCR primer sequences**

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| **Gene** | **Fwd primer (5’- 3’)** | **Rev primer (5’-3’)** |
| Pri-mir-7a-1 | TGGCCTAGTTCTGTGTGGAA | GTCCTGTAGAGGTGGCCTGT |
| Pri-mir-7a-2 | GAGACTCTAGGGAACTGTATGAGC | AATCACTAGTCTTCCAAACGG |
| Pri-mir-17 | CAGTGAGGGCACTTGTAGCA | GACTGACCGACGACTGGAC |
| Pri-mir-106b~25 | TTGTCTCGGTCTGACAGTGC | GCAAGCCACATTTGCCTACT |
| Pri-mir-29a | GCACATGACCTCTTGTGACC | AACCGATTTCAGATGGTGCT |
| Pri-mir-130a | AAATGAGGACGAGGGACG | AACATTGCACTGCTCGGT |
| Pri-mir-185 | ATCTGGGCTTAGGTAAAGG | AGGGGACCATCAGGAACT |
| Pri-mir-181c/d | GCCAAACAACACCATCAGG | CCAGACACCAGTCCCATTTC |
| Pri-mir-290~295 | AGACTGAGTATAGCGAAAGGCTA | AGCACTTTCTCATTCAGGC |
| Pri-mir-341~3072 | CGTGGTGGATTCGCTTTACT | CTTTCTGCAAGTTGCCATCA |
| Pri-mir-744 | ACTGCCAAGGTGAGTTCA | CCGTCAGTAAGACTGCTGTTAG |
| Gapdh | AACTTTGGCATTGTGGAAGG | ACACATTTGGGGGTAGGAACA |
| Nodal | GAGTTTCATCCTACCAACCA | TGCCATTGTCCACATAAAGC |
| For pri-miRNA RT-qPCR experiments in embryos, the above reverse primers were used for the reverse transcription reactions prior to amplification by qPCR | | |