**Supplementary file 1. Sequences of siRNAs used in this study.**

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| --- | --- | --- | --- | --- |
| **Species** | **Target gene** | **NCBI Reference No.** | **siRNAs** | |
| **Name** | **Sequence (5’-3’)** |
| Mouse | *Mettl3* | NM\_019721.2 | siMettl3 | GCACACTGATGAATCTTTA |
| *Fgf16* | NM\_030614.2 | siFgf16 | GCTCTATGGATCGAAGAAACT |
| *Ythdf1* | NM\_173761.3 | siYthdf1 | GACAGTCCAATCCGAGTAACA |
| *Ythdf2* | NM\_145393.4 | siYthdf2 | GCAGCACAGAGCATGGTAACA |
| *Mettl14* | NM\_201638.2 | siMettl14 | GCATTGGTGCTGTGTTAAA3 |
| *Fto* | NM\_011936.2 | siFto | GAGTGCTCAACAGGCACCTTGGATT |
| H9c2 cells | *Mettl3* | NM\_001024794.1 | siMettl3 | GCACACTGATGAATCTTTA |
| *Fgf16* | NM\_021867.3 | siFgf16 | GACTCGGAGAGACAGTATTAT |
| *Mis12* | NM\_001047972.1 | siMis12 | GGCAGGTATCAAGGAACTA |
| *Six5* | NM\_001372077.1 | siSix5 | GGAGAGGAAATCCCAGGAA |
| *Ythdf2* | NM\_001047099.1 | siYthdf2 | GGTTCTGGATCTACTCCTT |
| Negative control (NC) | | | siNC | GTCCAGATTGTCCGCAACTA |