|  |  |  |
| --- | --- | --- |
|  | Sequence | supplier |
| si-NNT-AS1-1# | sense: CAUCUGCUUCUGGUGACAACCUCAATT | PROTEINBIO, Nanjing, China |
|  | antisense: UUGAGGUUGUCACCAGAAGCAGAUG |
| si-NNT-AS1-2# | sense: GAAGGACAGACAAACUGUAACCUUUTT |
|  | antisense: AAAGGUUACAGUUUGUCUGUCCUUCTT |
| si-NNT -1# | sense: GCACCUUUGUUGGUGGAUAUUT |
|  | antisense: AAUAUCCACCAACAAAGGUGCTT |
| si-NNT -2# | sense: CCCUAUGGUUAAUCCAACAUUTT |
|  | antisense: AAUGUUGGAUUAACCAUAGGGTT |
| si-NNT -3# | sense: CGAGAAGCUAAUAGCAUUAUUTT |
|  | antisense: AAUAAUGCUAUUAGCUUCUCGT |
| miR-382-5p mimics | forward: GAAGUUGUUCGUGGUGGAUUGG | TSINGKE, Nanjing, China |
|  | reverse: AAUCCACCACGAACAACUUCUU |
| mimics NC | forward: CTCGCTTCGGCAGCACA |
|  | reverse: AACGCTTCACGAATTTGCGT |
| miR-382-5p inhibitor | CGAAUCCACCACGAACAACUUC |
| inhibitor NC | CAGUACUUUUGUGUAGUACAA |
| NNT-AS1 forward | ACGTGCAGACAACATCTACCT | GENERAY, Shanghai, China |
| NNT-AS1 reverse | TACAACACCTTCCCGCAT |
| NNT forward | TGGTCAAGCAGGGTTTTAATGT |
| NNT reverse | TCCTTTGCCCCTTGGATTTGG- |
| miR-382-5p forward | ATCCGTGAAGTTGTTCGTGG |
| miR-382-5p reverse | TATGGTTGTAGAGGACTCCTTGAC |
| GAPDH forward: | GAAGTGTGAAGGTCGGAGTC |
| GAPDH reverse | GAAGATGGTGATGGGATTTC |

Supplementary Table 1. The sequences of siRNAs, miRNAs, and primers

Supplementary Table 2. The sequence of shNNT-AS1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 5’ | stem | loop | stem | 3’ |
| shNNT-AS1-a | Ccgg | CATCTGCTTCTGGTGACAACCTCAA | CTCGAG | TTGAGGTTGTCACCAGAAGCAGATG | TTTTTg |
| shNNT-AS1-b | aattcaaaaa | CATCTGCTTCTGGTGACAACCTCAA | CTCGAG | TTGAGGTTGTCACCAGAAGCAGATG |  |

Supplementary Figure 1. Differentially expressed antisense lncRNAs in GSE53624 and JSPH.