

## Supplementary Information

**Table S1.** Synthesized oligonucleotides for miRNA duplexes.

Duplex	One strand	Sequence *	Opposite strand	Sequence *
<b>let-7b</b>	let-7b-5p	UGAGGUAGUAGGUUGUGUGGUU	let-7b-3p	CUAUACAACCUACUGCCUUCCC
<b>miR-1</b>	miR-1-5p	UGGAAUGUAAAGAAGUAUGUAU	miR-3p	ACAUACUUCUUUAUAUGCCCAUA
<b>miR-21</b>	miR-21-5p	UAGCUUAUCAGACUGAUGUUGA	miR-21-3p	CAACACCAGUCGAUGGGCUGU
<b>miR-22</b>	miR-22-3p	AAGCUGCCAGUUGAAGAACUGU	miR-22-5p	AGUUCUUCAGUGGCAAGCUUUA
<b>miR-28</b>	miR-28-5p	AAGGAGCUCACAGUCUAUUGAG	miR-28-3p	CACUAGAUUGUGAGCUCCUGGA
<b>miR-30c-1</b>	miR-30c-5p	UGUAAACAUCCUACACUCUCAGC	miR-30c-1-3p	CUGGGAGAGGGUUGUUUACUCC
<b>miR-186</b>	miR-186-5p	CAAAGAAUUCUCCUUUUGGGCU	miR-186-3p	GCCCAAAGGUGAAUUUUUUGGG
<b>miR-199b</b>	miR-199b-3p	ACAGUAGUCUGCACAUUGGUUA	miR-199b-5p	CCCAGUGUUUAGACUAUCUGUUC
<b>miR-200b</b>	miR-200b-3p	UAAUACUGCCUGGUAUGAUGA	miR-200b-5p	CAUCUACUGGGCAGCAUUGGA
<b>miR-330</b>	miR-330-5p	UCUCUGGGCCUGUGUCUUAGGC	miR-330-3p	GCAAAGCACACGGCCUGCAGAGA
<b>miR-335</b>	miR-335-5p	UCAAGAGCAAUAACGAAAAAUG	miR-335-3p	UUUUUCAUUAUUGCUCUCCUGACC
<b>miR-346</b>	miR-346-5p	UGUCUGCCCGCAUGCCUGCCUCU	miR-346-3p	AGGCAGGGGCUGGGCCUGCAGC
<b>miR-466</b>	miR-466-5p	AUACACAUCACGCAACACACAU	miR-466-3p	GUGUGUUGCAUGUGUGUAUAUGU
<b>miR-574</b>	miR-574-5p	UGAGUGUGUGUGUGAGUGUGU	miR-574-3p	CACGCUCAUGCACACACCCACA
<b>miR-3126</b>	miR-3126-5p	UGAGGGACAGAUGCCAGAAGCA	miR-3126-3p	CAUCUGGCAUCCGUCACACAGA
<b>miDNA</b>	miDNA	taatactgcctggtaatgatga	miDNA *	catcttactgggcagcattgga

\* Upper character indicates RNA. Lower character, DNA. s\* indicates miRNA strand which is not assigned in miRBase.

**Table S2.** Oligonucleotide sequences for construction of miRNA target reporters. Each oligonucleotide contains completely matched target sequence of each miRNA (22 nt) with 2 nt excessive sequences (upper cases) at both ends, and the overhang sequence of restriction enzyme (4 nt, lower cases) at 5' end.

	Sense strand	Antisense strand
let-7b-5p target	tcgaGAAACCACACAACCTACTACCTcacc	aattGGTGAGGTAGTAGGTTGTGTGGtttc
miR-21-5p target	tcgaAGTCAACATCAGTCTGATAAGCtacc	aattGGTAGCTTATCAGACTGATGTTgact
miR-200b-3p target	tcgaCGTCATCATTACCAGGCAGTATtaga	aattTCTAATACTGCCTGGTAATGATgacg
miR-330-5p target	tcgaGAGCCTAAGACACAGGCCAGAgagg	aattCCTCTCTGGGCCTGTGTCTTAGgctc

**Table S3.** qRT-PCR was carried out using the Forward and the Reverse primers.

Gene name	Forward primer (5'→3')	Reverse primer (5'→3')
HDHD1A	GACGGACTTCTTCTGGATACTG	CCATAACCAGGGACTTTACATC
UBQLN1	CAGCTACAGAATCCAGAAGTCAG	CCCAGTAACCTTTCAATAGCTG
PBX2	GGAGGCAAACATCTATGCTG	CCAGATCCTGAGAGATTGAAAG
ZC3H11A	CAGTCCTCTTCAGATTCCCTCAC	AAATCATCCTCCACAGAGAGTG
SKA2	CCAGGTTCAAGCAGTTCTCTG	GGATCACCATCAGGAGTTAAAG
CASP7	ATCAGGGCTGTATTGAAGAGC	TACTGAAGAGGGACGGTACAAAC
SLC11A2	CTTGGTCCTTATCATCTGTTC	CAACCCAAGTAGAACACAAAGC
UBR3	CGACTAAATAGCTGTCCTTTCC	ACCACACTTACAAATGGTCTGG
RARG	ATCAGCACTAAGGGAGCTGAAAG	CTCAAACATTTTCAGGGTTCTCC
SPAST	GTGAAGAATATGTCTGCCAGTG	CTTCTAAAGTTTGAGGGCTGAC
METTL7A	CTATTTTCATGGAGCATGTGG	AGCTCTCTCTGGTCAGGTTG
SEC23A	CGGTTCTTCTTGATAGCAGTAGC	CATATCCTGGTATCCTGACTTCC
HMGN4	GCTCGGTTGTCTGCTAAACC	CTTTCAGCATCTGCTTTCC
ZNF652	GAGTAAGGAAATGCTTCTCACC	GTAAGTACAGAGAGGGAGCAC
SLC39A1	GTCACCTCTGGAGGAAACAAG	CAGGGAGAACCACAGTACACAG
OTUD4	TTCAGCCATCCTAGAACTAGC	ACACTAGAGTGGACCTTGCTTAG
USP37	CCTAACACCAGATTCAAGTCAC	CTTGCAAGAGTGCATTACTCAG
AP1S2	TGAGCACTGTCTTATCACATCG	CAGCAGCTCTGCATAGTTTGAC
OSTM1	TCAAGAGATCCTCCTGCCTTAG	CCAAGTACTCTGGGCTACAC
SHCBP1	CAAGGAAGGGATCCTCATTAAG	TCACCAAGACAACACCATAACC
PGM2L1	CTACCTTCCAAGTGAGTCACAAC	CCTCACCATACATAGAAGCAGAG
TOMM34	TCAGAAGAGGTGGAATTCCTTG	TTGCCTTCTTCCTCAGAACTC
SPRYD3	GTCTGTGGCTTATCATGCAGAC	ATTCCACAGCCCATGATGTC
SRPR	TCAAAGAGCTTGAGTCGTGAAG	CAACAGATTCACAGAGCTGGAC
B4GALT1	GGGAGTTGTGGGAAATAAGAAG	AAGTTACCACTCAGGGCATTG
SLC7A11	GCATCTGCTACCTTTGAGAGTG	CTGCCATAACCAGAAAGCTC
NHLRC3	CAGGTTTACTCCTGATGGGAAG	TGATCTGCTAGTTGGATTGTGC
CLDN12	GTACTCCCATCCACCCAGTATG	CCCATTAAGTGGTGTGTGAAAC