**Table S1.** Sequence information of primers designed for PCR and RT-qPCR

| Name | **Primer** | **Sequence** | **Amlicon size (bp)** | **Gene ID** | **Purpose of primers** |
|---|---|---|---|---|---|
| *PTEN* (WT) | Forward | CCGCTCGAGGAAGGTCTGAATGAGGGTT | 933 | XM_042238662 | pmiR-RB-Report™ |
| | Reverse | GAATGCGGCCGCATCTGATTGGCAGGAGGC | | | |
| *PTEN* (MUT) | Forward | TGTGACTTTGGTTTCCGAGTCCTAATTAAAACTTT | | | |
| | Reverse | CGGAAACCAAAGTCACATAGCAATTCTTGTCAAATTCTATGG | | | |
| *PTEN* | Forward | ACGACGGGAAGACAAGTT | 158 | | |
| | Reverse | CCTCTGGTCCTGGTATGA | | | |
| *ACSL4* | Forward | TCTCCTTCTTCCCAAACT | 138 | XM_042242177.1 | RT-qPCR |
| | Reverse | AGCAGTGACACCGTTCATGAC | | | |
| *LPL* | Forward | ACCTGAAGACTCGTTCTC | 206 | NM_001009394.1 | |
| | Reverse | CACCTCCGTGTAAAGTAG | | | |
| *mTOR* | Forward | AACAGCGAGCACAAGGAG | 134 | NM_001145455.1 | |
| | Reverse | AGCACATCTGCCACCACT | | | |
| *SREBP1* | Forward | ACAGCCCGGTCTTTGAGG | 200 | XM_027974784.2 | |
| | Reverse | CCCAGGACGGTGGTTGAT | | | |
| *AKT* | Forward | GCTCTTCTTCCACCTGTCCC | 162 | NM_001161857.1 | |
| | Reverse | ATGTGCCCGTCCTTGTCC | | | |
| *GAPDH* | Forward | GTCGGAGTGAACGGATTT | 174 | NM_001190390.1 | |
| | Reverse | CTCTGCCTTGACTGTGCC | | | |
| *MiR-30a-3p* | Forward | CTTTCAGTCGGATGTTTGCAG | | | |
| | Reverse | / | | | |
| *U6* | Forward | ACGGACAGGATTGACAGATT | | | |
| | Reverse | TCGCTCCACCAACTAAGAA | | | |

Note：WT: The primers used for constructing wild-type (WT) pmiR-RB-Report™ vector.

MUT: The primers used for constructing mutated (MUT) pmiR-RB-Report™ vector.