**Table S3. The sequences of primers used in plasmid construction**

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| Primers | Sequence |
| miR-188-5p | F: 5’-GAAGATCTTCAGAGCGAGCCTTCTCTTCC-3’ |
| R: 5’-CGGAATTCCGGGAGTCCTGAGAAGGTTCT-3’ |
| PTEN 3’UTR | F: 5’-CTAGCTAGCTAGGATATACTGGTTCACATCCTAC-3’ |
| R:5’-GCTCTAGAGCGATGAAGTTCTGCCTAATCT-3’ |
| PTEN ORF | F: 5’-GGGGTACCCCGCCACCATGGACTACAAGGACGATGATGACAAGACAGCCATCATCAAAG-3’ |
| R: CGGGATCCCGTCAGACTTTTGTAATTTGTG-3’ |