| Primer name                  | Primer sequence (5’ to 3’)                                                                 | Primer usage       |
|-----------------------------|---------------------------------------------------------------------------------------------|--------------------|
| U6-KpnI-F                   | CTCACTATAGGGCGAATTGGAGTTATGTAGTACACATTGTTGTA                                                |                    |
| A2-sgRNA1-R1                | GGTTGAAGACACGCGAATTAGTTTAGCTAGCTAGAATAGCAAGTT                                               |                    |
| A2-sgRNA1-F1                | GCTAGCCATTGACTCCGCGGAGTTATGTAGTACACATTGTTGTA                                                |                    |
| A2-sgRNA1-R2                | TTTTCTTGTATAGTATCAAAAAAAAAAGCACCCTCAGGGT                                                  | Vector construction|
| A2-sgRNA1-F2                | GGTCTTAGAAGATAGCCTCCACTCTTGTAGAGCAGATATTTGTAT                                               |                    |
| Overlap-R                   | GCTAGCCATTGACTCCGCGGAGTTATGTAGTACACATTGTTGTA                                                |                    |
| Overlap-F                   | GGTCTTAGAAGATAGCCTCCACTCTTGTAGAGCAGATATTTGTAT                                               |                    |
| A2-sgRNA2-R2                | TTTTCTTGTATAGTATCAAAAAAAAAAGCACCCTCAGGGT                                                  |                    |
| A2-sgRNA2-F2                | GGTCTTAGAAGATAGCCTCCACTCTTGTAGAGCAGATATTTGTAT                                               |                    |
| U6-HindIII-R                | GGTCTTAGAAGATAGCCTCCACTCTTGTAGAGCAGATATTTGTAT                                               |                    |
| A2JC-F                      | CGGATAGTACTTTTCTACCGGT                                                                     | Mutation detection |
| A2JC-R                      | TCCATTCGCTGGCGGAC                                                                      |                    |
| E75A-F                      | ATGTCTCGGATATGCTACCGGC                                                                     |                    |
| E75A-R                      | TATGCAATTCAGGTTACGTC                                                                     |                    |
| E75B-F                      | ATGTCTCGGATATGCTACCGGC                                                                     |                    |
| E75B-R                      | TCCATTCGCTGGCGGAC                                                                      |                    |
| E75B-R                      | GCGGTCAGCTACGTCATTTAGTA                                                                  | RT-qPCR            |
| ECRA-F                      | TACAACGCAGCTGAGTGTGA                                                                    |                    |
| ECRA-R                      | CACATTCGCTGCTCCATTTCC                                                                    |                    |
| HR3-F                       | AACTACCAGTTTCCTCGCAAC                                                                  |                    |
|   |   |   |
|---|---|---|
| HR3-F | CTTCTCTCGCTGCTTCTTC |   |
| PI3K-F | CTTCTCTCGCTGCTTCTTC |   |
| PI3K-R | ACGGAAGCCATATCGACCTT |   |
| AKT-F | TCATGAACCACCCTTCTTC |   |
| AKT-R | GCGAGGCTTTCTCATTCTC |   |
| S6K-F | TGTGAGGCAAGAGATCAG |   |
| S6K-R | TCAGCCCTGTATGTCAGT |   |
| FOXO-F | GGGACAATGGCAGAGTTGG |   |
| FOXO-R | CGTACGAAGATTGCCCAAG |   |
| 4EBP-F | CAATCTCGATTTCCCAAAC |   |
| 4EBP-R | CTGCCGACTGTCGAAATGATA |   |
| Ugt-F | TGTAGCTCAACAGATCGGAGT |   |
| Ugt-R | ACGCGTCTCCTTTGTGGAC |   |
| ManI-F | TCACCCCTCAGATGACAC |   |
| ManI-R | AAAGCTGGCCTTCTTGAGC |   |
| AQP-F | GGCTTTATAAAGCTCGACA |   |
| AQP-R | ATAGAAGCAATGTAATGCC |   |
| Ser-4-F | GATTAGTTGTAGCATGAGGCC |   |
| Ser-4-R | CAGGTACACGCCTCCC |   |
| 101739720-F | TGGGAGAGAAGAGCTTGT |   |
| 101739720-R | ACTCCATGCACCTCAAACCTC |   |
| Kymu-F | ACACCACTATCAAGACGT TTATG |   |
| Primer | Sequence | Primer | Sequence |
|--------|----------|--------|----------|
| Kymu-R | CTTCGTACTCTTTTCACTCGTAAC | Kmo-F | GTTGAGAGAAGTCGGTTTGAAG |
| Kmo-R | CTTTTTCTCAAATTGATGCTATC | Kmo-R | CCTTTTCTCAAATTGATGCTATC |
| 101740318-F | ATCATGGCTTTACCCTGG | 101740318-R | CTTCCGTTATTATATGTTTCACCG |
| 101747147-F | CAATATCGCCGAGTATTGCC | 101747147-R | GATGCTGGTTATGTGACTTGC |
| 101744132-F | ACGTGCCGGTGATCGTGA | 101744132-R | CTGGTAGCCGGTTGAGACC |
| 101745659-F | GGCGGTATAAGATACGAGAC | 101745659-R | AAAGAGTGGACCGCACACA |
| 101736988-F | TTTTACGGATCGCGTTG | 101736988-R | TGGCCGCTACACGCGTT |
| 101737600-F | GACAGTTAGCGTTCCTTCCGTC | 101737600-R | TGTGCTCAGAAGATATTTGTTGT |
| NOS2-F | TTTTTGCGACTTTCTAGGGAAG | NOS2-R | GTGTAATCTTTTCACTCCATC |
| RP49-F | TCAATCGGATCGCTATGACA | RP49-R | ATGACGCTCCTTTGTTGG |