

Table S1 List of primers used in this study.

Primer name	Primer sequence (5' to 3')	Primer usage
U6-KpnI-F	CTCACTATAGGGCGAATTGGAGGTTATGTAGTACACATTGTTGTA	Vector construction
A2-sgRNA1-R1	GGTCTTAGAAGATAGCCTCCACTTGTAGAGCACGATATTTTGTAT	
A2-sgRNA1-F1	GGAGGCTATCTTCTAAGACCGTTTTAGAGCTAGAAATAGCAAGTT	
Overlap-R	GCTAGCCATTGACTCCGCGGAGGTTATGTAGTACACATTGTTGTA	
Overlap-F	TTTTCTTGTTATAGATATCAAAAAAAGCACCGACTCGGTG	
A2-sgRNA2-R2	TAATTCGCGTGTCTTCAAACACTTGTAGAGCACGATATTTTGTAT	
A2-sgRNA2-F2	GTTTGAAGACACGCGAATTAGTTTTAGAGCTAGAAATAGCAAGTT	
U6-HidIII-R	CCGCGGAGTCAATGGCTAGCAAAAAAGCACCGACTCGGTG	Mutation detection
A2JC-F	CGGATAGTACTTTCTACGCGT	
A2JC-R	TCCATTGCTGGCGGGAC	
E75A-F	ATGTCTCCGATAGTAGCTACGGGC	RT-qPCR
E75A-R	TATGCAATTCAGGTTACGT	
E75B-F	ATGGTGCGAACCATGTCGTGTG	
E75B-R	GCGGTCACAGCTACATTTAGTA	
ECRA-F	TACAACGCACTGACGTGTGA	
ECRA-R	CACATTCAGGCCTCATTCT	
HR3-F	AACTACCAGTGTCTCGCAAC	

HR3-F	CCTTCTCTCGCTGCTTCTTC
PI3K-F	CTAGAAGCTGCGGAGTGGTA
PI3K-R	ACGGAAGCCATATCGACCTT
AKT-F	TCATGAACCACCCCTTCTTC
AKT-R	GCGAGGCTGTTCTCATTCTC
S6K-F	TGTGGAGGCAGAAGGATCAG
S6K-R	TCAGCCTTGGTATGTGCAGT
FOXO-F	GGGAACAATGGCAGAGTTGG
FOXO-R	CGTACGAAAGATTGCCCCAG
4EBP-F	CAATCTCCGATTTCCTCAAAC
4EBP-R	CTGCGACTCGTCGAATGATA
Ugt-F	TTGGCTCAACGATCTGGAGT
Ugt-R	ACGCGTCTCCTTTTGTGAC
ManI-F	TCACCCCTTCCAGATGACAC
ManI-R	AAAGCTTGGCCTTCTTGAGC
AQP-F	GGCTTTATAAAGCTCGACA
AQP-R	ATAGAGCAATGTGAATGGC
Ser-4-F	GATTAGTTGATGCATTGAGCC
Ser-4-R	CAGGTACAGCGCTTCCC
101739720-F	TGGGAGAGAAGAGAGCTTGT
101739720-R	ACTCCATGCACCTCAAACCTC
Kymu-F	ACACCACTTATCAAGACGTTTATG

Kymu-R	CTTCGTA	CTTTCACTCGTAAC
Kmo-F	GTTGAGAGAAGTCGGTT	AGAAAG
Kmo-R	CCTTTTCTCAAATTTGATGCTATC	
101740318-F	ATCATGGCTTTACCACTGG	
101740318-R	CTTCCGTTATTATATGTTTCACCG	
101747147-F	CAATATCGCCGAGTATTGCC	
101747147-R	GATGCTGGTTATGTGACTTGC	
101744132-F	ACGTGCCGTTGATCGTGA	
101744132-R	CTGGTAGTCCGTTGAGACC	
101745659-F	GGCGGTATAAGATACGAGAC	
101745659-R	AAAGAGTGGACCGCACACA	
101736988-F	TTTTTACGGATCGCGTGG	
101736988-R	TGGCCGCTACAGCGTT	
101737600-F	GACAAGTTAGCGTTTCTTCCGTTT	
101737600-R	TGTGCTCACGAAGTATCTTATGT	
NOS2-F	TTTCTTGGCACTTTCTAGGGAAG	
NOS2-R	GTGGTATCTGTTTTCATCCATC	
RP49-F	TCAATCGGATCGCTATGACA	
RP49-R	ATGACGGGTCTTCTTGTTGG	
