

Supplemental Table 3. Primer sequences for detecting on- and off-target effects by deep sequencing.

Primer Name	Sequence (5'-3')	Note
<i>mRpgr</i> -F	GCTAGGCATGTGTTCTACC	On_target
<i>mRpgr</i> -R	CTTCTCTGTCTACTACTTTCCA	
OT1-F	CTCTATGGAGCCAATTATCTG	Off target site 1
OT1-R	CACACTGCCCAAACCTTA	
OT2-F	ATATGGGTACTTGAGGGTTC	Off target site 2
OT2-R	TTGTCTTGGTGCCAATAAG	
OT3-F	AATATCATAGCTGCCAGGG	Off target site 3
OT3-R	GCCTCTTCTCTCCTTAAACT	
OT4-F	TTTACCAGAAAGTTGGGAAC	Off target site 4
OT4-R	TTGGCTGGAGGTTGTAAG	
OT5-F	GGATAGGTTAGCAGATAGAATG	Off target site 5
OT5-R	CACAGACAAATGCAGACAAA	
OT6-F	GGTCCAATCTTCTGATGTC	Off target site 6
OT6-R	ATTACTGCCTGAGAAATCCT	
OT7-F	AAGTGGCTGCTCTGACAA	Off target site 7
OT7-R	GGGTAAGTTGGTGGGACT	
OT8-F	CCAGCTTCAAATCGTTAC	Off target site 8
OT8-R	GATATGGTTGAAAGAGATC	
OT9-F	TCGAGCTATTCAGTGTATGC	Off target site 9
OT9-R	AACTGCCTGCCTGAGATT	
OT10-F	AATCAACGCATCGCTTCC	Off target site 10
OT10-R	CTGGTATCCGTACTTTCAAATC	
OT11-F	TTGGCCCTTCACTGGTTT	Off target site 11
OT11-R	TTGGTCTGCCTGTTATTCAA	
OT12-F	TGTTTCCATTGGTGATTGAATA	Off target site 12
OT12-R	AGTGGCAATGAGCATGTAA	