

**Table S4** Primers used for PCR and DNA sequencing.

Name	Primer sequence	Tm ( °C)	Product size (bp)
RYR1-KO	F: 5' TGCCCCTGTCTCTTCCTTCT 3' R: 5' ACATTTGGGCAGTCTCCTGG 3'	64.0	854
OTS1	F: 5' AGGAAGAAGAAGGTAGGCTAGGGT 3' R: 5' AGCAGAGTAATGCCATGCCCA 3'	62.0	745
OTS2	F: 5' AACAAACAATCCCTGAAAACAGGAG 3' R: 5' CCAGAGGGATCTGGGGAATGA 3'	58.0	523
OTS3	F: 5' ACTCATCACTGTGTAACCTCACCCT 3' R: 5' CCCGTGCTGTTTCACAATAGACA 3'	58.0	620
OTS4	F: 5' CAGTCAGTCGATGGAGCGGT 3' R: 5' CATGACCCTATGGCCAGGTCC 3'	58.0	511
OTS5	F: 5' ACTATCTTCCCTAGCTGGCCT 3' R: 5' TGCACTTCTAACCTATAACCACATGC 3'	62.0	700
OTS6	F: 5' GTATAAGAAGGGTAGAAACAGAGGAAGA 3' R: 5' CCCTGAAGATTCCTATCGAGTG 3'	64.0	996
OTS7	F: 5' CTGGACTATGGTTGTTGAGCTG 3' R: 5' AATGTGGCGAGACCCAC 3'	58.0	680

<sup>1</sup> RYR1-KO, DNA sequences covering target sites of CRISPR-Cas9-gRNA; OTS, Potential off-target sites of CRISPR/Cas9-gRNA.