

usp30^{ihb589/+} (CZRC catalog ID: CZ1579)

Nature of the mutation

7bp deletion, Between 144bp to 150bp of the wild-type *usp30* coding sequence, ATGGGGG is deleted in exon2.

Sense Strand Sequence

Ctgtcttgacaacagatgtgaagttaactcttattggactacttgattcagtgtcagcatgaatcagctcttccatgct
 ttacttttcccccataaagtgtgtgtgtgtgaatgatggcttacagggtttgccagagagccaggcttaatgcaaacacag
 ctgcaaggtcagagtcagtctgctgtcctccacaggtg**tcctctgtctgtgct**gtttgccccacatttaaaacacttgat
 cgctctgttcagGAACAAGATGATGAAGAAGCTGGGGCGTGATTGGTGAATAGCT
 GCTGCCATGGCTGCT**GGAGTCTATGTACTATGG**GGGCCAATTCAGACAGG
 AGGAAGAAGAGAAAAGgtaaggtgtccaacctcattttatcaacccaattatccattatcgttctcttttct
 tgatcgagacacaattcactcacatgtttacctctttccttcttactgctgataaactggaatcgacagatttagtaggtgagag
 acagtttaaggttcgctctgag**aatagaataatcaacagga**atgtgacggagcatgcctcatcactccttgccaaacta
 attaacaattagtatcagcagacgctc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg: Forward/Reverse primer

atcg: Crisper/cas9 target site

WT	ctctgttcagGAACAAGATGATGAAGAAGCTGGGGCGTGATTGGTGAATAGCTGCTGCCA
MT	CTCTGTTCAGGAACAAGATGATGAAGAAGCTGGGGCGTGATTGGTGAATAGCTGCTGCCA *****
WT	TGGCTGCTGGAGTCTATGTACTATGGGGCCAATTCAGACAGGAGGAAGAAGAGAAAAG
MT	TGGCTGCTGGAGTCTATGTACT-----CCAATTCAGACAGGAGGAAGAAGAGAAAAG *****



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WT

gtaagggtccaacctcattttatcaacccaattatccattatcggttctctttttcct

MT

GTAAGGTGTCCAACCTCATTATCAACCCAATTATCCATTATCGTTCCTCTTTTCCT
