



***csnk1a1*^{ihb311/+*(AB)*} (CZRC catalog ID: CZ1212)**

Nature of the mutation

35bp of "TGGCTGTAAACAACAGTAAACAACGATTCAAACAA" insertion from position 533bp exon1 of wild-type *csnk1a1* coding sequence.

Sense Strand Sequence

TCTTCATTTGTCGTTGTGAGTTAAGGACACAGCTAGTAAGGAAGAGCCGTTTTTA
GGCTAGCTAGCATTGTTTCTACTGGACTGAAGAAGAGAGCTGCCTGAAAACCTCG
CCCGTTTACACAGTTTCAGTGTACTTCTCGGATTTTA**GGACATGGCCAGCAGCAGT**
GGCTCTAAAGCCGAGTTTATAGTCGGTGGGAAATACAAGCTCGTTCGTAAAATCGG
ATCTGGATCCTTCGGTGACATTTATTTGGCAATCAACATCACAAATGGAGAGgtaaaat
gaaattgatgtgtaattctgtgctgaatgactgggataagaagattgagtgtttatac**gtgtgccagctcaacaagtc**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg: Forward/Reverse primer

atcg: Crisper/cas9 target site

Genotyping assay

Primers:

CZ1212_forward: 5'- tcttcatttcgtcgttgt-3'

CZ1212_reverse: 5'- gacttgttgagctggacacac-3'

PCR program:

95°C 5min
95°C 30sec
58°C 30sec
72°C 30sec } 30 cycles
95°C 10min
4°C hold

Product size: 363bp

