



## *csnk1a1*<sup>ihb312/+ (AB)</sup> (CZRC catalog ID: CZ1213)

### Nature of the mutation

7bp of "GGCAGGC" insertion from position 533bp exon1 of wild-type *csnk1a1* coding sequence.

### Sense Strand Sequence

**TCTTCATTTGTCGTTGT**GAGTTAAGGACACAGCTAGTAAGGAAGAGCCGTTTTTA  
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:

CZ1213\_forward: 5'- tcttcatttcgtcgttgt-3'

CZ1213\_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**

