



***egr1^{ihb424/+}* (AB) (CZRC catalog ID: CZ1367)**

Nature of the mutation

8bp deletion and 3bp insertion, Between 134bp to 144bp of the wild-type *egr1* coding sequence, TTCTCAAC is mutated to GCA in exon1.

Sense Strand Sequence

ggagtcagacatcgcagcatcttcacatttgcgtcccagaggggtagctgctgatttccagcacaattctctctccgagcacact
ccagagagATGGCTGCAGCCAAGACAGAGATGCTCCTGCCTGCTCTGCAGATCTCCGA
CCCCTTGAGCTTCCCTCACTCCCCACGGATAACTACCCCAAGTTGGAGGAGATGA
TCATGCTGAACTCTGCAGGGACCC**CCTTTCTCAACGCCACAGCA**CCTGAAGGCGC
TGTTTTTGGCTCCGGGGAGCCCGGGGAGCAGTTTGATCACCTTGCTGGAGgtaagcact
aaatccctcttgataaattgcatgctgcttcataactagattgcaagagttgcatgtgcataaaaatgctgacattaaataagtaataa
tgtgttatgataaattgcatgttttagcgtctcttcatttaataataaagtatacatggaggagttatttaataatgtgtataaataatattgcat
cgatgtaaagtaaaatatacatttaattaaagctgacagcagttaatatggagtcactgtaaagctaaggaatgaatgaagcatttaag
agaatagcttcattttaaaccagctttcagcttttaagtgcaatttgaataaatttaagctgtgcaaatgtgaaa**aagggatcaggatg**
tgagtaagg

Uppercase: Exon/coding sequence
Lowercase: intron/noncoding sequence
atcg: Forward/Reverse primer
atcg: Crisper/cas9 target site

Genotyping assay

Primers:

CZ1367_forward:5'- ggagtcagacatcgcagcatctt -3'

CZ1367_reverse:5'- ccttactcacatcctgatccctt -3'

PCR program:

95°C	5min	}	30 cycles
95°C	30sec		
60°C	30sec		
72°C	30sec		
95°C	10min		
4°C	hold		

Product size: 708bp

Reference

None

