

mir210^{nju49/+} (CZRC catalog ID: CZ 275)

Nature of the mutation

As compared to the WT sequence of *mir210*, 107 bp is deleted (contain all exon 1).

Sense Strand Sequence

taaattatcctttaggctacattatatttgc**aatgttcagctgcagaacgg**catgtataaaaaatgataatttttattcacatgtttacagcgatatt
 ctgggttcca**ccgttcctgtccatcggaa**ctgtgatttctgaaagcaggttaagccactgactaacgcacattgcgctatttccactccact
 gtgcgtgtgacagc**ggctaaccagctttgg**atctgcacctgacatcagcgccgtgggaatgtcccactggagactactaaaggatcaaggc
 ggacacagtcaccggaggacgctttggatccactgtccctctaacatgactttttgttcttgtaagcactgcactgaaacactaacttagg
 gctgtggtgcgttcaatccccgcggagcgcctgaata**aatgggtgcgttgtgatc**ggtgtacatgtacatttta

atcg : Forward/Reverse primer

atcg : cas9 target site

Genotyping assay

Primers:

nju49_forward: 5' AATGTTTCAGCTGCAGAACGG 3'

nju49_reverse: 5' GATCACACAACGCACCCATT 3'

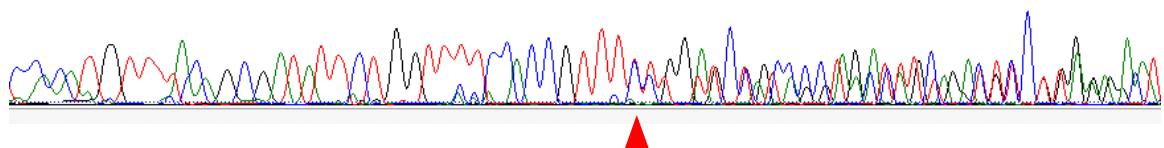
PCR program:

95°C 5min
 95°C 30 sec
 58°C 30 sec } 30 Cycles
 72°C 30 sec
 72°C 8min
 4°C hold

Product size: 416 bp

The sequencing results of the CZ275(+/-): 107bp deletion

C C CA T G T T 1A A G C G AT A T T C T G G T T T T C A C C G T T T T T G G A G C T G C A C C A G A C T T C G A T G C C T G G G G A A T



CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

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WT      Taaattatccttgttaggctacattatattttgctaatgttcagctgcagaacggcatgtt
CZ275   Taaattatccttgttaggctacattatattttgctaatgttcagctgcagaacggcatgtt
*****
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WT      ataaaaatgataatttttattcacatgtttacagcgatatctctgggtttccaccgtttc
CZ275   ataaaaatgataatttttattcacatgtttacagcgatatctctgggtttccaccgt---
*****
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WT      ctgtgcatcggaacttggtatctctgaaagcaggt aagccactgactaacgcacatgac
CZ275   -----
```

```
WT      gcctatctccactccactgtgcgtgtgacagcgctaaccagcttttggatctgcacct
CZ275   -----tttggatctgcacct
*****
```

```
WT      gacatcagcgcctgggaatgtcccactggagactacttaaaggatcaaggcggacacag
CZ275   gacatcagcgcctgggaatgtcccactggagactacttaaaggatcaaggcggacacag
*****
```

```
WT      tcaccggagggacgctttgggatccactgtccctctaacatgacttttgttcttggtaa
CZ275   tcaccggagggacgctttgggatccactgtccctctaacatgacttttgttcttggtaa
*****
```

```
WT      agcactgcacttgaaacactaacttagggctgtggtgcgttcaatcccgcggagcgcat
CZ275   agcactgcacttgaaacactaacttagggctgtggtgcgttcaatcccgcggagcgcat
*****
```

```
WT      gcctgaaataatgggtgcgttgtgtgatcgggtacatgtacatttta
CZ275   gcctgaaataatgggtgcgttgtgtgatcgggtacatgtacatttta
*****
```

Reference:

None