

mycb^{nju50/+} (CZRC catalog ID: CZ255)

Nature of the mutation

Between 172 bp to 259 bp of the wild-type *mycb* coding sequence, 86bp (GCCCTATTTCTATTTTGACAACGAGGACGAGGATTTCTATAACCATCAGCA CGGACAGCCACCGGCGCCAGTGAGGATATATGG), is deleted. The mutated *mycb* codes for a truncated protein containing 31 aa, of which 256 aa are identical to wildtype *mycb*.

Sense Strand Sequence

atagttcacgctcacgctgacatctgaccatattgtcagtggtcattcagctttaccacggctacggtgagtgctctgtttatta
cctacttgtatctggcgggttcagataagtttacgcgacttgctgacgcacattagtaaatccaggagacgactgattgaagtt
gtgtttaggatgattaacattgtgtaacattaaagagcgagactttaaccatgccttcttcttcacaggcactcaccatgccg
ctgaattcaagatggagtgtaaaaattatgattacgactacgactcctaccagccctatttctattttgacaacgaggacgag
gatttctataaccatcagcacggacagccaccggcgccagtgaggatatatggaagaaattgaactgctgccaccct
ccgctctccccgagccggcgaccctccctgtcagacccttcccgtccacagccgacaagctcgagatggtgctggagttt
ttgggggacgatgtggtcaaccacagcattattgtgacgggactactcccagtcgtttctgaaatcattatcattcaggac
tgtatgtggagcggtttctccgcagcggctaagctggagaaggtggtgctggagagattagcgtcgtccaggcggcgag
gaaggagtcaccaggaccgagtcggacatctgtcggctgtcggcttctccaggacatgagcaccctgcctccc
agtgcattgaccctccgtggtgtttcccttccaactgacggacagacaaa

atcg : Forward/Reverse primer

atcg : TALEN target site

Genotyping assay

Primers:

nju50_forward: 5' CTTCTTCTTCACAGGCACTC 3'

nju50_reverse: 5' GAAACCGCTCCACATACA 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: 732 bp

The sequencing results of the CZ255 (+/-):

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

```
WT          TTATGATTACGACTACGACTCCTACCAGCCCTATTTCTATTTTGACAACGAGGACGAGGA
CZ255 (-/-) TTATGATTACGACTACGACTCCTACC-----
*****

WT          TTTCTATAACCATCAGCACGGACAGCCACCGGCCCCAGTGAGGATATATGGAAGAAATT
CZ255 (-/-) -----AAGAAATT
*****

WT          TGAAGTGTGCCACCCCTCCGCTCT
CZ255 (-/-) TGAAGTGTGCCACCCCTCCGCTCT
*****
```

Reference:

None