

## *myca*<sup>nju52/+</sup> (CZRC catalog ID: CZ256)

### Nature of the mutation

Between 315 bp to 316 bp of the wild-type *myca* exon sequence, 4bp (ACAA), is insertion. The mutated *myca* codes for a truncated protein containing 333 aa, of which 409 aa are identical to wildtype *myca*.

### Sense Strand Sequence

ttgacagtaagtttggttcggatgtgcgctcgaataaagcaccacaagcagagatgctcgaggatgttttgtagaagtaac  
cgccgctttggcttcactcgtctgttttacacagctgctgagttgctgtgtatttacagcttgaatatctttatgtgcagttt  
tttggtgaagctttgtgtgtgttagttagacgttgccctctgcaccgtagtgattcatattgttttttatctcctctcaag  
tgtcaaatgctggtgagtgcgagtttgccgtgtaaaaactacgattacgactacgactccatccagccctacttctacttca  
caacgacgatgaggattttatcaccatcagcaaggacagactcaacctcagccccagcgaggacatttggagaatt  
cgaactgtgccacaccgccctctcggccagccggagacagtcgctctccaccgcggaacagctggagatggtcagc  
gagttcctggga

atcg : Forward/Reverse primer

atcg : ZFN target site

### Genotyping assay

#### Primers:

nju52\_forward: 5' GGATGTGCGCTCGAATAAAG 3'

nju52\_reverse: 5' AACTCGCTGACCATCTCCAG 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: 493 bp

## The sequencing results of the CZ256 (-/-):

```
WT      Tttgacagtaagtttggttcggatgtgcgctcgaataaagcaccacaagcagagatgctc
CZ256 (-/-) Tttgacagtaagtttggttcggatgtgcgctcgaataaagcaccacaagcagagatgctc
*****

WT      gaggatgttttggtagaagtaaccgccctttgggcttcactcgctgttttacacacgc
CZ256 (-/-) gaggatgttttggtagaagtaaccgccctttgggcttcactcgctgttttacacacgc
*****

WT      tgtcagttgcttgtgttatttacacgcttgaatatctttatagtgcagttttttggg
CZ256 (-/-) tgtcagttgcttgtgttatttacacgcttgaatatctttatagtgcagttttttggg
*****

WT      aagcttttgtgttgtgtttagttagacgttgcctctgcaccgtagtgattcatattg
CZ256 (-/-) aagcttttgtgttgtgtttagttagacgttgcctctgcaccgtagtgattcatattg
*****

WT      tttttttatctccttcccaagtgtcaaaatgctggtgagtgcgagttggcgtgtaa
CZ256 (-/-) tttttttatctccttcccaagtgtcaaaatgctggtgagtgcgagttggcgtgtaa
*****

WT      aaactacgattacgactacgactccatccagccctacttctacttcg---acaacgacg
CZ256 (-/-) aaactacgattacgactacgactccatccagccctacttctacttcgacaaACAACgacg
*****

WT      atgaggatttttatcaccatcagcaaggacagactcaaccttcagccccagcggaggaca
CZ256 (-/-) atgaggatttttatcaccatcagcaaggacagactcaaccttcagccccagcggaggaca
*****

WT      tttggaagaaattcgaactgctgcccacaccgccccctctcggccagccggagacagtcgc
CZ256 (-/-) tttggaagaaattcgaactgctgcccacaccgccccctctcggccagccggagacagtcgc
*****

WT      tctccaccgcggaacagctggagatggtcagcgagttcctggga
CZ256 (-/-) tctccaccgcggaacagctggagatggtcagcgagttcctggga
*****
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## Reference:

None