

***zar1*^{gd5/+} (AB) (CZRC catalog ID: CZ 284)**

Nature of the mutation

Between 9bp to 10bp of the wild-type *zar1* coding sequence, AT, is deleted. The mutated mycb codes for a truncated protein containing 50 aa, of which 329 aa are identical to wildtype *zar1*.

Sense Strand Sequence

taccctgttcataacgttacttaaaccgctacagtccgcttgccagccGGCTAAGCGAAAAATGGCTACATATGG
AAACGAGACAGTCGATAACTATCTTTACTCCTCTTACAACCCTTATTACTACAAATAC
CCCAAATTCAAGGGCTGGAGACAGAAAGCTTACTTCACCAACTACGGTGAGGGCGAG
ACCTACTTTGATAATCACACAGGGCGCAGCTGAAGTCCATCTTGTCTCAGATCAACC
CAAATCTCACCCCGCGTCTGAGGAAGGCCAACACCAAAGACGTCGGGGTTCAGGTCA
ACCCGAAGACCGACGCGTCTATCCAGTGCTCTCTGGGGCCGCGGACGCTTCTGGCAC
GCAAACGCGATGCCCTGCGCCG**GCGGCGGCAGGAGGTCCAGA**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

Genotyping assay

Primers:

gd5_forward : 5' TACCCTGTTTCATCTAACGTT 3'

gd5_reverse : 5' TCTGGACCTCCTGCCGCCGC 3'

PCR program:

95°C 5min

95°C 30 sec

60°C 30 sec

72°C 30 sec

72°C 8min

4°C hold

} 30 Cycles

Product size: 406 bp

The sequencing results of the CZ284 (-/-):

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WT          taccctgttcatac taacgttacttaaaccgctacagtcgcgttgccagccGGCTAAGCGA
CZ284       taccctgttcatac taacgttacttaaaccgctacagtcgcgttgccagccGGCTAAGCGA
*****

WT          AAAATGGCTACATATGGAACGAGACAGTCGATAACTATCTTTACTCCTCTTACAACCT
CZ284       AAAATGGCTAC--ATGGAACGAGACAGTCGATAACTATCTTTACTCCTCTTACAACCT
*****

WT          TATTACTACAAATACCCCAAATCAAGGGCTGGAGACAGAAAGCTTACTTCACCAACTAC
CZ284       TATTACTACAAATACCCCAAATCAAGGGCTGGAGACAGAAAGCTTACTTCACCAACTAC
*****

WT          GGTGAGGGCGAGACCTACTTTGATAATCACACAGGGCGCAGCTGAAGTCCATCTTGCT
CZ284       GGTGAGGGCGAGACCTACTTTGATAATCACACAGGGCGCAGCTGAAGTCCATCTTGCT
*****

WT          CAGATCAACCCAAATCTCACCCCGCTCTGAGGAAGGCCAACACCAAAGACGTCGGGTT
CZ284       CAGATCAACCCAAATCTCACCCCGCTCTGAGGAAGGCCAACACCAAAGACGTCGGGTT
*****

WT          CAGGTCAACCCGAAGACCGACCGCTATCCAGTGCTCTCTGGGGCCGGGACGCTTCTG
CZ284       CAGGTCAACCCGAAGACCGACCGCTATCCAGTGCTCTCTGGGGCCGGGACGCTTCTG
*****

WT          GCACGCAAACGCGATGCCCTGCGCCGGCGGGCAGGAGGTCCAGACCCCTGGGAGTCCC
CZ284       GCACGCAAACGCGATGCCCTGCGCCGGCGGGCAGGAGGTCCAGACCCCTGGGAGTCCC
*****

WT          GTCAGCAGCGGTGGTGTCCGGTTCCCGGCACCCAGGCCGTTTACTCCCC
CZ284       GTCAGCAGCGGTGGTGTCCGGTTCCCGGCACCCAGGCCGTTTACTCCCC
*****
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Reference:

None