

foxc1a^{nju60/+} (AB) (CZRC catalog ID: CZ 282)

Nature of the mutation

Between 943 bp to 949 bp of the wild-type *foxc1a* coding sequence, AATTATT, is mutated to TAAGCC.

Sense Strand Sequence

GCTGTTTCGCCACGCTAAGCACCGTCCCGAAGATCGAGAGCCCCGACAGCAGCAGC
AGCATGTCGAGCGGCAGCCCGCACAGCATCCCTTCCACCCGCTCCCTCAGCCTGGAC
AGCGCTGGAGAGCAGCACCACCAGGCCCGCGCAGGGCTTCAGCGTGGACAACATC
ATGACCTCCCTCCGCGGATCGCCGCACAGCTCCGGAGAGCTCACCCCGTCTCTCGTGG
CTCCCTCGCGGACAGGTATAACACCACGTTGTCCCTGAATTATTCTCCCAATCAGTC
GTCCGTGTACAGCTCGCCCTGCAGCCAGAACTCTATCTCGACTACCTCCAACGCCACC
TATCACTGCAACATGCAGGCCATGAGCTTGTACGCGGGCGGAGATCGCTCGGGCCAC
TTGGGGACCACCGCTACCACCGTGGACGAACTCTGCCTGATTACTCGATCACGACC
ACCACGTCGTCGTTGAGCCACGGGAATCTGAGCTCGGCCAGGAGGGCCACCATCCG
CACCAAGGGCGCCTCGCCTCATGGTACCTGAACCAGGCCGGAGACATTGGCCATCTA
GGCGCGACGTACCC

atcg : Forward/Reverse primer

Genotyping assay

Primers:

nju60_forward: 5' GCTGTTTCGCCACGCTAAG 3'

nju60_reverse: 5' GGGTACGTCGCGCCTAGATG 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: 587 bp

The sequencing results of the CZ282(+/-):

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WT      catgtcgagcggcagcccgcacagcatcccttccaccgctccctcagcctggacagcgc
CZ282   catgtcgagcggcagcccgcacagcatcccttccaccgctccctcagcctggacagcgc
*****

WT      tggagagcagcacaccaggcccccgcgagggttcagcgtggacaacatcatgacctc
CZ282   tggagagcagcacaccaggcccccgcgagggttcagcgtggacaacatcatgacctc
*****

WT      cctccgggatcgccgcacagctccggagagctcaccgctctctcgtggctccctcgcg
CZ282   cctccgggatcgccgcacagctccggagagctcaccgctctctcgtggctccctcgcg
*****

WT      gacaggtataacaccacggttgccctgaattattctcccaatcagtcgctcgtgtacag
CZ282   gacaggtataacaccacggttgccctgTA-AGCCctcccaatcagtcgctcgtgtacag
***** * ... *****

WT      ctgcccctgcagccagaactctatctcgactacctccaacgccacctatcactgcaacat
CZ282   ctgcccctgcagccagaactctatctcgactacctccaacgccacctatcactgcaacat
*****

WT      gcaggccatgagcttgtagcggggcggagatcgctcgggccacttggggaccaccgctac
CZ282   gcaggccatgagcttgtagcggggcggagatcgctcgggccacttggggaccaccgctac
*****

WT      caccgtggacgaaactctgcctgattactcgatcacgaccaccacgctcgtcgttgagcca
CZ282   caccgtggacgaaactctgcctgattactcgatcacgaccaccacgctcgtcgttgagcca
*****

WT      cgggaatctgagctcggcccaggagggccaccatccgcaccaagggcgcctcgcctcatg
CZ282   cgggaatctgagctcggcccaggagggccaccatccgcaccaagggcgcctcgcctcatg
*****
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Reference:

None