

sdc4^{ihb257/+} (CZRC catalog ID: CZ464)

Nature of the mutation

In the 98 bp of the wild-type *sdc4* coding sequence, A is deleted in exon 2.

Sense Strand Sequence

cattgagctcttaggagtggaagagttttgttttaaattgtatttttaagtccttctgtgtctctcagctgtgacctttccttcagtgcactgtgttt
acgttgattgcattacaaggttctgaatatgtacatatttattgatgatcggccttggaaccgatggctaagctgcattcctaaggatgccat
ttctttttgtagGTACGAGAACTGAACTTG**GGTACCTCTGAAAAACAAGG**CGGCCATCGAGGACCTGGAGTC
CTCCGGCAACTCACAGAATGAAGACTTTGAGTTCACCGACTTAAACCAGACTGACGATG**AGGATGGCTTTG**
ATGAAGAT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Crispr/cas9 target site

Genotyping assay

Primers:

sdc4_forward: 5' CATTGAGTCTTTAGGAGTGG 3'

sdc4_reverse: 5' ATCTTCATCAAAGCCATCCT 3'

PCR program:

95°C 5min

95°C 30 sec

55°C 30 sec

72°C 30 sec

72°C 8min

4°C hold

} 30 Cycles

Product size: 349 bp

The sequencing results of the CZ464:

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WT      cctaaggatgccattttcttttttagGTACGAGAACTGAACTTGGGTACCTCTGAA
CZ462   cctaaggatgccattttcttttttagGTACGAGAACTGAACTTGGGTACCTCTGAA
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WT      AAATAGGCGGCCATCGAGGACCTGGAGTCCTCCGGCAACTCACAGAATGAAGACTTGA
CZ462   AAATAGGCGGCCATCGAGGACCTGGAGTCCTCCGGCAACTCACAGAATGAAGACTTGA
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Reference:

None