

sall4^{nju59/+} (CZRC catalog ID: CZ281)

Nature of the mutation

Between 1349 bp to 1837 bp of the wild-type *sall4* coding sequence, 423bp, is deleted, and 3bp, is insertion.

Sense Strand Sequence

CCACAATCTCCAGGGGTCATAGGATTACAGAGTCCCTTTAATAACCTTGCAA
CAAGCATGGACCCCTCAAAAAGGCAAAAATAAGGGCCCTGTAGTCTCG
GAGCCTCAAAAATGTCTCTGTTGAACACTCGTTCAAGCACAAATGCAA
GTTCTGTGGTAAAACATTTGGAAATGACAGCGCTCTACAAATCCACTTGCG
CTCGCACACTGGCGAAAGGCCCTTTAAATGTAACATCTGTGGAAACCGTTT
CACAACCTAAAGGAAACCTCAAAGTACATTTTCAGAGACACAAAGAAAAAT
ATCCACACATCAAGATGAATCCACATCCGGTACCTGAACACCTGGACAACA
TGCCCTCAAACAATGGTATCCCTTATGGCATGTCTGTGCCCATGGAGGAAAA
TGGTTTTAGTGAAACCAAACCTGTTTTGGGAGTTCCCACAACAGGTCCCCC
GGCAGGTCCCCATCCGCCAGTGCTCCAGGCATTCAAGCCCTCATTTGATATT
CCAGCTGCTGGAGACCCCTACTCCCAGAGACCTTCTTCATCAGGCAGTGAT
GGTGCATCGATTTCTTCTGGCATGTTCCGGTCAAGATATAGCAGGATCGGATC
AAAGCAAAGATCCCCTGATGCAATGGTTGGATTGCACCATATAAACGGTA
ACAGCCTAACTGGAGAAAATGGCTCTGGTACCGCAAAGCTTCAGCAAATG
GTGGACTGCTTGGAGAAGAGGACAAATGACCCCAATGAATGTGTTATATGC
CACAGAGTGCTGAGCTGCCAAAGTTCCCTCAAATGCATTACCGCACACAC
ACTGGCGAGCGACCGTACAAATGCAAATCTGTGGCAGGGCCTTCTCCAC
CAAAAGGCAACCTTAAAGCTCATTATGGTGTTCACAGGGCCAACACTCCTCT
GAAGATGCAACACTCTTGCCCAATTTGCCATAAGAAGTTCACCAACGCAG

atcg : Forward/Reverse primer

atcg : TALEN target site

Genotyping assay

Primers:

nju59_forward: 5' CCACAATCTCCAGGGGTCAT 3'

nju59_reverse: 5' CTGCGTTGGTGAACCTTCTTA 3'

PCR program:

95°C 5min
95°C 30 sec } 30 Cycles
55°C 30 sec }
72°C 30 sec }
72°C 8min
4°C hold

Product size: 967 bp OR 548bp

The sequencing results of the CZ281 (-/-):

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WT      TCAAAACAATGGTATCCCTTATGGCATGTCTGTGCCCATGGAGGAAAAATGGTTTTAGTGAA
CZ281   tcaaaacaatggtatcccttattggcatgtctgtgcccatggaggaaaatggTTTTAGTGAA
*****

WT      ACCAAACCTGTTTTGGGAGTTCCACAAACAGGTCCCCCGGCAGGTCCCATCCGCCAGTG
CZ281   accaaacctgttttgggagttccacaaacaggtcccccggcaga-----
*****

WT      CTCCAGGCATTCAAGCCCTCATTGATATTCCAGCTGCTGGAGACCCCTACTCCCAGAGA
CZ281   -----

WT      CCTTCTTCATCAGGCAGTGATGGTGCATCGATTCTTCTGGCATGTTCCGGTCAAGATATA
CZ281   -----

WT      GCAGGATCGGATCAAAGCAAAGATTCCCTGATGCAATGGTTGGATTGCACCATATAAAC
CZ281   -----

WT      GGTAACAGCCTAACTGGAGAAAAATGGCTCTGGTACCGCAAAGCTTCAGCAAATGGTGGAC
CZ281   -----

WT      TGCTTGAGAGAAGAGGACAAATGACCCCAATGAATGTGTTATATGCCACAGAGTGCTGAGC
CZ281   -----

WT      TGCCAAAGTTCCCTCAAAAATGCATTACCGCACACACACTGGCGAGCGACCGTACAAAATGC
CZ281   -----

WT      AAAATCTGTGGCAGGGCTTCTCCACCAAAGGCAACCTTAAAGCTCATTATGGTGTTCAC
CZ281   -----tgattatggtgttcac
* *****

WT      AGGGCCAACACTCCTCTGAAGATGCAACACTCTTGCCCAATTTGCCATAAGAAGTTCACC
CZ281   agggccaacactcctctgaagatgcaacactcttgcccaatttgccataagaagttcacc
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Reference:

None