

rngtt^{nju51/+} (CZRC catalog ID: CZ 254)

Nature of the mutation

Between 874 bp to 875 bp of the wildtype **rngtt** coding sequence, TGGGG, is insertion. The mutated **rngtt** codes for a truncated protein containing 306 aa, of which 598 aa are identical to wildtype **rngtt**.

Sense Strand Sequence

agagtgcgtgtgttgattttcagcatcgaggcggctgtggcagcgttcgctcaggctcgtccgaggcatctataaaggagactacctga
aggagctctccggcggtacgggatgtggaggacgtcccgccgccccgccaactgcccgagtggcttcgatgaagacgaggaggag
gatggggaggaagacggcagtgccagcgtccggcctccgagcccagctcatctcacaccgggcagagcaagaagaagaaggagaga
ctcaactggtgagatgctgttgaaaaagaagcgttacaaggaaatttcacagatattcctctaattttgttctctggagaaagtctattggttt
tttccggctagaataaaagcagttttattgttttaaacattttaaggtcaatgttattagcccccttaagcaatattagtttggattgtctacagca
gggggtcccaaagtagggctcgggacccccgggggggtcgtgggacatttaataaattcattcattttatgaaactttgctcttaccat
atttatccataacctacagaagcaa

atcg : Forward/Reverse primer

atcg : cas9 target site

Genotyping assay

Primers:

nju51_forward: 5' AGAGTGCTGTGTGTTGTGAT 3'

nju51_reverse: 5' TTGCTTCTGTAGGTTATGGA 3'

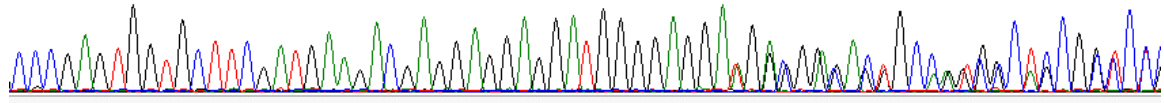
PCR program:

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: 416 bp

The sequencing results of the CZ254(+/-):

130 140 150 160 170 180 190
 CCCGAGTGGTGC TTCGATGAAGACGAGGAGGAGGATGGGGAGGAAGAAGGGGACTGCGCGTGCCCTCCGGTCCC



CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

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WT          agagtgctgtgtgtgtgatttcagcatcgaggcggctgtggcagcgttcgctcaggct
CZ254       agagtgctgtgtgtgtgatttcagcatcgaggcggctgtggcagcgttcgctcaggct
*****

WT          cgtccgccaggcactctataaaggagactacctgaaggagctctccggcggtacggggat
CZ254       cgtccgccaggcactctataaaggagactacctgaaggagctctccggcggtacggggat
*****

WT          gtggaggacgctcccgcgccccgccactgccagtggtgcttcgatgaagacgaggag
CZ254       gtggaggacgctcccgcgccccgccactgccagtggtgcttcgatgaagacgaggag
*****

WT          gaggatggggagga-----agacggcagtgccagcgtccggcctccgagcccagctcat
CZ254       gaggatggggaggaTGGGAgacggcagtgccagcgtccggcctccgagcccagctcat
*****

WT          ctcacaccgggcagagcaagaagaagaaggagagactcaaactggtgagatgcgtttgaa
CZ254       ctcacaccgggcagagcaagaagaagaaggagagactcaaactggtgagatgcgtttgaa
*****

WT          aaagaagcgttacaaggaaattttcacagtatttctcctaattttgttctctggagaa
CZ254       aaagaagcgttacaaggaaattttcacagtatttctcctaattttgttctctggagaa
*****

WT          agtcttattggtttttttccggctagaataaaagcagttttattgttttaaccattt
CZ254       agtcttattggtttttttccggctagaataaaagcagttttattgttttaaccattt
*****

WT          taaggtcaatgttattagcccccttaagcaatattagtttggattgtctacagcagggg
CZ254       taaggtcaatgttattagcccccttaagcaatattagtttggattgtctacagcagggg
*****

WT          ttcccaaagtagggctcgggacccccccgggggggtcgtgggacattttaataaattcat
CZ254       ttcccaaagtagggctcgggacccccccgggggggtcgtgggacattttaataaattcat
*****

WT          tcattcattttatgaaacttttgctcttaccatattttatccataacctacagaagcaa
CZ254       tcattcattttatgaaacttttgctcttaccatattttatccataacctacagaagcaa
*****
  
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Reference:

None