

rbp5^{nju53/+} (AB) (CZRC catalog ID: CZ 276)

Nature of the mutation

Between 269 bp to 273 bp of the wild-type **rbp1a** coding sequence, GACGG, is deleted.

Sense Strand Sequence

AATCTCTCTTTGTCTCCTCTTTAGATGTTAATTATGCACTGAGGAAGGTAGTCTGTATT
CTGAAACCCAGCAAACACATTGAACACGATGTGAACACTGGCAGGATGAAGATAAA
GACCGTCACCACTTTTAAGAACTTCGACATGGACTTCACTTTAGGACAGGAGTTCACT
GAGGACCTGGGGCCAGTCGATGGGCGAAAGTGCCAAGTGTGTTGGGCTCTTTTTTTTA
TACACTATATCTATTTTGTATTGTAATGTATTGGTGAGCAACCTAGGCCCTTTAAAA
AGTAACAAAAGAAGGCAAAGAAAAGCTCTGTGGGAAAGTGTGGTATGTGTGGTGCTA
ATGGATAATGATCTCCATATGTTTCAGACTACGGTGGACTGGGACGGTGATAAATTGA
TCTGCGTGCAGCGAGGAGAGAAAGAGGGCAGAGGCTGGACACACTGGTTAGAAGGA
AACATCCTCCATTTGGTAAGCAGAGTTCAGGAAAAGTCTTTTACACAGTATGTTTCT
GGAGA

atcg : Forward/Reverse primer

atcg : cas9 target site

Genotyping assay

Primers:

nju53_forward: 5' AATCTCTCTTTGTCTCCTCT 3'

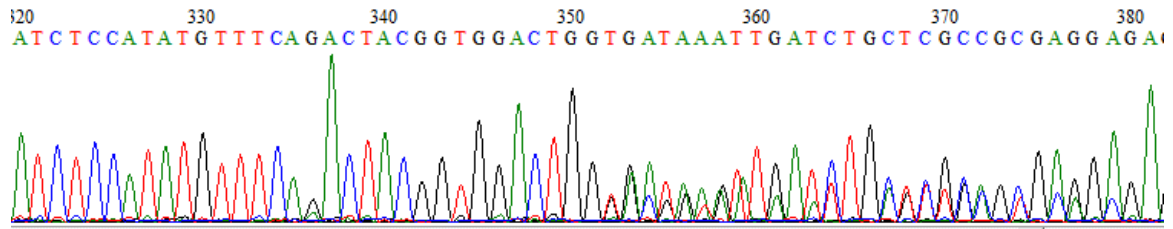
nju53_reverse: 5' TCTCCAGAAACATACTGTGT 3'

PCR program:

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

Product size: 523 bp

The sequencing results of the CZ276(+/-):



WT	AATCTCTCTTTGTCTCCTCTTTAGATGTTAATTATGCACTGAGGAAGGTAGTCTGTATTC
CZ276	AATCTCTCTTTGTCTCCTCTTTAGATGTTAATTATGCACTGAGGAAGGTAGTCTGTATTC *****
WT	TGAAACCCAGCAAACACATTGAACACGATGTGAACACTGGCAGGATGAAGATAAAGACCG
CZ276	TGAAACCCAGCAAACACATTGAACACGATGTGAACACTGGCAGGATGAAGATAAAGACCG *****
WT	TCACC ACTTTTAAGA ACTTCGACATGGACTTCAC TTTAGGACAGGAGTTC ACTGAGGACC
CZ276	TCACC ACTTTTAAGA ACTTCGACATGGACTTCAC TTTAGGACAGGAGTTC ACTGAGGACC *****
WT	TGGGGCCAGTCGATGGGCGAAAGTGCCAAGTGTGTGGGCTCTTTTTTTTATACACTATA
CZ276	TGGGGCCAGTCGATGGGCGAAAGTGCCAAGTGTGTGGGCTCTTTTTTTTATACACTATA *****
WT	TCTATTTTGTATTGTAATGTATTGGTGAGCAACCTAGGCCCTTTAAAAAGTAACAAAAG
CZ276	TCTATTTTGTATTGTAATGTATTGGTGAGCAACCTAGGCCCTTTAAAAAGTAACAAAAG *****
WT	AAGGCAAAGAAAAGCTCTGTGGGAAAGTGTGGTATGTGTGGTGCTAATGGATAATGATCT
CZ276	AAGGCAAAGAAAAGCTCTGTGGGAAAGTGTGGTATGTGTGGTGCTAATGGATAATGATCT *****
WT	CCATATGTTTCAGACTACGGTGGACTGGGACGGTGATAAATTGATCTGCGTGCAGCGAGG
CZ276	CCATATGTTTCAGACTACGGTGGACT----GGTGATAAATTGATCTGCGTGCAGCGAGG *****
WT	AGAGAAAAGAGGCAGAGGCTGGACACACTGGTTAGAAGGAAACATCCTCCATTTGGTAAG
CZ276	AGAGAAAAGAGGCAGAGGCTGGACACACTGGTTAGAAGGAAACATCCTCCATTTGGTAAG *****
WT	CAGAGTTCAGGAAAAGTCTTTTACACAGTATGTTTCTGGAGA
CZ276	CAGAGTTCAGGAAAAGTCTTTTACACAGTATGTTTCTGGAGA *****

Reference:

None