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# *notch3*$^{fh332/+}$ (CZRC catalog ID: CZ127)

## Nature of the mutation

The *fh332* allele contains a single T-to-G point mutation that changes Tyr into a premature stop codon at amino acid 669, resulting in truncation of the **notch3** protein.

## Genotyping assay

**Primers:**

**Fh332_forward:** 5’ CCCTTGTGACTACGGAATTT 3’

**Fh332_reverse:** 5’ AGTCGTTTCGGTCTAGGTCA 3’

**PCR program:**

95℃ 5min

95℃ 30 sec
58℃ 30 sec
72℃ 30 sec
} 30 Cycles

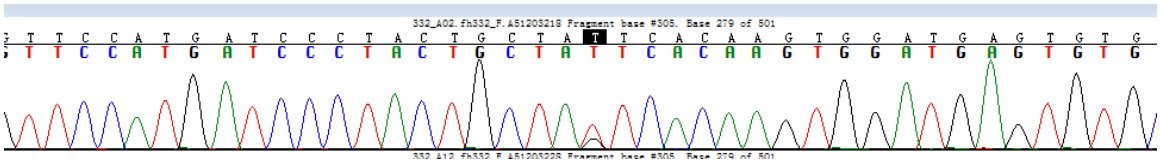
72℃ 8min

4℃ hold

**Product size:523 bp**

## The sequencing results of the parents:

CZ127(+/-):AAGGGTTCCATGATCCCTACTGCTA**[T/G]**TCACAAGTGGATGAGTGTGCCAG



## Reference:

1.Alunni, A., Krecsmarik, M., Bosco, A., Galant, S., Pan, L., Moens, C.B., and Bally-Cuif, L. (2013) Notch3 signaling gates cell cycle entry and limits neural stem cell amplification in the adult pallium. Development 140(16):3335-47

2.Quillien, A., Moore, J.C., Shin, M., Siekmann, A.F., Smith, T., Pan, L., Moens, C.B., Parsons, M.J., Lawson, N.D. (2014) Distinct Notch signaling outputs pattern the developing arterial system. Development 141:1544-52

3.Wang, Y., Pan, L., Moens, C.B., and Appel, B. (2014) Notch3 establishes brain vascular integrity by regulating pericyte number. Development 141(2):307-317