

## *rp2*<sup>hzu1/+</sup> (CZRC catalog ID: CZ186)

### Nature of the mutation

The *hzu1/+* allele contains a 5 bp deletion (CGGTC) from position 359 to 363 in Exon 2.

### Genotyping assay

#### Primers:

**CZ186\_forward:** 5' ACGGTCAGCAGTTTGTTCATTTCAG 3'

**CZ186\_reverse:** 5' CGGGCATTAGCAGTGGTGTAGTC 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: 583 bp**

### The sequencing results of the CZ186: (Original TA Cloning )

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

```
WT          acggtcagcagtttgtcattcaggactgcgaaaactgtaacatatttgtgttgaccatt
CZ186 (+/-) acggtcagcagtttgtcattcaggactgcgaaaactgtaacatatttgtgttgaccatt
*****

WT          cgccaactattaccatcgatgactgtgtgaactgocgcatgtgttaggtccggtcaaag
CZ186 (+/-) cgccaactattaccatcgatgactgtgtgaactgocgcatgtgtta-----ggtcaaag
*****

WT          gcagtggttcttcagagattgtaagacatcaaatgcgtggcctgtcagcagttcc
CZ186 (+/-) gcagtggttcttcagagattgtaagacatcaaatgcgtggcctgtcagcagttcc
*****

WT          gcacgagagactgcaagaaaatggacgtcttttggctgctgcccaccagccataatcg
CZ186 (+/-) gcacgagagactgcaagaaaatggacgtcttttggctgctgcccaccagccataatcg
*****

WT          agtcttctacagcagatgaagtttggctgcttccagtattactaccctgagctggctttcc
CZ186 (+/-) agtcttctacagcagatgaagtttggctgcttccagtattactaccctgagctggctttcc
*****

WT          actttaagatgcaggtctcagcatttttaacaacaactggagcaatattcatgacttca
CZ186 (+/-) actttaagatgcaggtctcagcatttttaacaacaactggagcaatattcatgacttca
*****

WT          cacctgtctctggagaaactaactggagtcctcctgccagaggatgctgttctctggacc
CZ186 (+/-) cacctgtctctggagaaactaactggagtcctcctgccagaggatgctgttctctggacc
*****
```

### Reference:

Liu, F., Chen, J., Yu, S., Raghupathy, R.K., Liu, X., Qin, Y., Li, C., Huang, M., Liao, S., Wang, J., Zou, J., Shu, X., Tang, Z., Liu, M. (2015) Knockout of RP2 decreases GRK1 and rod transducin



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subunits and leads to photoreceptor degeneration in zebrafish. Hum. Mol. Gen. 24(16):4648-59