

topbp1^{cas003/+} (AB) (CZRC catalog ID: CZ272)

Nature of the mutation

The *cas003* allele contains a single C to T nonsense mutation causing an earlier stop codon before the eighth BRCT (BRCA1 C-terminus) domain and a putative C-terminus nuclear localization signal (NLS) of TopBP1 protein

Genotyping assay

Primers:

Cas003F1_forward: 5' ATCAGTACGAGTGGGGAAGC 3'

Cas003R1_reverse: 5' CCTCTCTGGCCTGGTCAATA 3'

PCR program:

95°C 5min

95°C 30 sec

58°C 30 sec

72°C 30 sec

72°C 8min

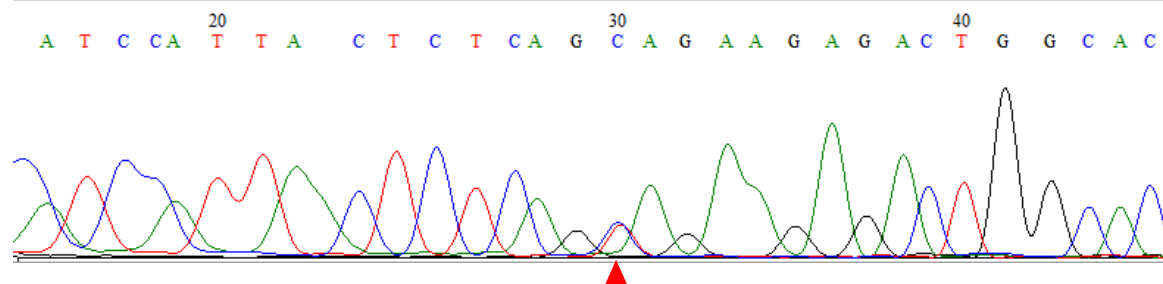
4°C hold

} 30 Cycles

Product size: 260 bp

The sequencing results of the parents:

CZ272 (+/-): TGCCATCCATTA ACTCTCAG[C/T]AGAAGAGACTGGCACTGGCC



Reference:

Gao, L., Li, D., Ma, K., Zhang, W., Xu, T., Fu, C., Jing, C., Jia, X., Wu, S., Sun, X., Dong, M., Deng, M., Chen, Y., Zhu, W., Peng, J., Wan, F., Zhou, Y., Zou, L.I., Pan, W. (2015) TopBP1 Governs Hematopoietic Stem/Progenitor Cells Survival in Zebrafish Definitive Hematopoiesis. PLoS Genet. 11:e1005346