

***ihb367Tg/+* (AB) (CZRC Catalog ID: CZ 1276)**

Nature of the mutation

The *ihb367Tg* allele is a transgenic zebrafish line *Tg(Cca.Actb:abcc4-FLAG)*. A plasmid of pT2/ β -actin P-Abcc4-Flag- β -actin-pA was constructed for the transgenesis. It includes a strong promoter and a polyadenylation signal sequence from carp β -actin gene, zebrafish *abcc4* coding sequence (CDS) which was introduced a Flag-tagged at the carboxyl terminus for transgene expression analysis.

Genotyping assay

Genotyping of the *ihb367Tg* allele is based on PCR. *Tg(Cca.Actb:abcc4-FLAG)* genome was collected using a Tissue DNA Kit (Omega Bio-Tek) and was detected by the forward primer 5' -GTCAACGGCAGCTCGTCTGTCTG and reverse primer 5' -GTCATCGTCGTCCTTGAGTC. The forward primer was located at the end CDS of *abcc4* gene and reverse primer were located at the end of the Flag-tag. A 440bp fragment was amplified using these two primers.

Reference

Lu X, Long Y, Lin L, Sun R, Zhong S, Cui Z. Characterization of zebrafish *Abcc4* as an efflux transporter of organochlorine pesticides. *PLoS One*. 2014 Dec 5;9(12):e111664. doi: 10.1371/journal.pone.0111664. eCollection 2014.