



## ***ihb21Tg/+* (AB) (CZRC Catalog ID: CZ 99)**

### **Nature of the line**

The *ihb21Tg* allele is a transgenic line and the transgenic construct contains a mCherry expression cassette driven by macrophage expressed 1 promoter *mpeg1*.

### **Genotyping assay**

1. Genotyping of the *ihb21Tg* allele is based on the fluorescent microscope. As identified by fluorescent microscope, the mCherry fluorescence signal is detectable in macrophage-specific cells.



Figure. mCherry expression in macrophage cells at 2 dpf in *ihb21Tg* line.

2. Genotyping of the *ihb21Tg* allele is based on the PCR assay.

### **Primers:**

F: 5' ACGGATTTGAAACTGAGAAG 3'

R: 5' AACTGAGGGGACAGGATG 3'

### **PCR program:**

1. 94 °C for 3 min
2. 94 °C for 30 sec
3. 52 °C for 30 sec
4. 72 °C for 30 sec
5. Go to step 2 (above) for 29 cycles
6. 72 °C for 5 min
7. 12.0 °C hold

**Product size:** 335 bp.

### **Reference:**

Ellett F, Pase L, Hayman JW, Andrianopoulos A, Lieschke GJ: *mpeg1* promoter transgenes





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direct macrophage-lineage expression in zebrafish. *Blood* 2011, 117(4):e49-56

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