

# Resource Summary Report

Generated by [RRID](#) on Aug 26, 2026

## [hsp70l-loxP-mCherry-STOP-loxP-H2B-GFP\\_cryaa-cerulean](#)

RRID:Addgene\_24334

Type: Plasmid

### Proper Citation

RRID:Addgene\_24334

### Plasmid Information

**URL:** <http://www.addgene.org/24334>

**Proper Citation:** RRID:Addgene\_24334

**Insert Name:** H2B

**Organism:** Danio rerio

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:19706417](#)

**Vector Backbone Description:** Backbone Size:3000; Vector Backbone:pBluescript; Vector Types:Worm Expression, Cre/Lox; Bacterial Resistance:Ampicillin

**Comments:** This plasmid was constructed using 1.5 kb of the hsp70l promoter. The floxed mCherry-STOP and H2b\_GFP fragments were PCR amplified individually and sequentially cloned downstream of the hsp70l promoter. The mCherry-STOP cassette serves as a heat-shock induction marker prevents read-through translation of the H2B-GFP fusion protein, which is only expressed in cells that have undergone a Cre mediated excision event. cryaa-Cerulean was inserted downstream of HSB-GFP in the reverse orientation. \*H2B has D26G and V119I mutations. According to the depositor, GFP expression from this construct was always nuclear so there is no reason to suspect that the mutations affect the function (nuclear localization) of the H2B fragment.

**Plasmid Name:** hsp70l-loxP-mCherry-STOP-loxP-H2B-GFP\_cryaa-cerulean

**Relevant Mutation:** mCherry driven by an HSP70 promoterCerulean driven by a CrystallineA promoter\*

**Record Creation Time:** 20220422T222108+0000

**Record Last Update:** 20260815T081229+0000

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## Ratings and Alerts

No rating or validation information has been found for hsp70l-loxP-mCherry-STOP-loxP-H2B-GFP\_cryaa-cerulean.

No alerts have been found for hsp70l-loxP-mCherry-STOP-loxP-H2B-GFP\_cryaa-cerulean.

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## Data and Source Information

**Source:** [Addgene](#)

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## Usage and Citation Metrics

We found 8 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [RRID](#).

Thrikawala SU, et al. (2026) Cp36 serine recombinase as a new tool for zebrafish transgenesis. bioRxiv : the preprint server for biology.

Ahuja S, et al. (2024) The development of brain pericytes requires expression of the transcription factor nkx3.1 in intermediate precursors. PLoS biology, 22(4), e3002590.

Chen J, et al. (2022) Brain vascular damage-induced lymphatic ingrowth is directed by Cxcl12b/Cxcr4a. Development (Cambridge, England), 149(13).

Ibrahim S, et al. (2020) A novel Cre-enabled tetracycline-inducible transgenic system for tissue-specific cytokine expression in the zebrafish: CETI-PIC3. Disease models & mechanisms, 13(6).

Ma X, et al. (2020) Retinoid X receptor alpha is a spatiotemporally predominant therapeutic target for anthracycline-induced cardiotoxicity. Science advances, 6(5), eaay2939.

Ye L, et al. (2016) An insulin signaling feedback loop regulates pancreas progenitor cell differentiation during islet development and regeneration. Developmental biology, 409(2), 354.

Centanin L, et al. (2014) Exclusive multipotency and preferential asymmetric divisions in post-embryonic neural stem cells of the fish retina. Development (Cambridge, England), 141(18), 3472.

Sanders TA, et al. (2013) Specialized filopodia direct long-range transport of SHH during vertebrate tissue patterning. Nature, 497(7451), 628.