

Resource Summary Report

Generated by [RRID](#) on Aug 22, 2026

pSox2-bd::FP

RRID:Addgene_34703

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/34703>

Proper Citation: RRID:Addgene_34703

Insert Name: eGFP

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:22113462](#)

Vector Backbone Description: Backbone Marker:Created by Köster and Fraser; Vector Backbone:act-GVP-UG; Vector Types:Xenopus expression; Bacterial Resistance:Kanamycin

Comments: The Sox2/Oct3-4 enhancer elements and a minimal promoter from the murine FGF4 were subcloned from the plasmid described in Figure 1 of Ambrosetti et al. (2000). The fragment contains six tandem repeats of the 35-bp fragment containing the Sox2/Oct3-4 heterodimer transcription factor binding domain (bd) followed by a 165-bp minimal FGF4 promoter (mFGF4). This plasmid was a gift of Claudio Basilico (New York University). To increase the FP signal, the Sox2/Oct 3-4-mFGF regulatory fragment was moved to the “act-GVP-UG” concatenated plasmid created by Köster and Fraser (2001), which was adapted from the Drosophila Gal4-UAS system (Brand and Perrimon,1993) and shown to function in Xenopus (Chae et al.,2002; Hartley et al.,2002). We replaced the minimal promoters of the act-GVP-UG plasmid with our Sox2/Oct3-mFGF regulatory fragment to control the expression of the transcriptional activator, Gal4-VP16, which in turn drives the expression of genes controlled by the upstream activating sequence (UAS). The final expression vector (abbreviated as pSox2-bd::FP) contains: 6 repeats of the Sox2/Oct3-4 transcription factor binding domain, mFGF4, Gal4-VP16, a polyadenylation site, 14 repeats of UAS, mFGF4, and eGFP (ClonTech, Palo Alto, CA). Sequencing with EGFP-N identified 1nt deletion at position 1733, 1 nt insertion at position 1214, 2 nt insertion at 1557 compared to the depositor provided sequence. These mutations are all in non-coding regions and have been shown by the depositing lab to not effect the function of the plasmid.

Plasmid Name: pSox2-bd::FP

Record Creation Time: 20220422T222148+0000

Record Last Update: 20260815T081354+0000

Ratings and Alerts

No rating or validation information has been found for pSox2-bd::FP.

No alerts have been found for pSox2-bd::FP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Huang LC, et al. (2024) BRCA1 and ELK-1 regulate neural progenitor cell fate in the optic tectum in response to visual experience in *Xenopus laevis* tadpoles. *Proceedings of the National Academy of Sciences of the United States of America*, 121(3), e2316542121.

Feng MS, et al. (2021) Imaging Mitochondrial Dynamics in the *Xenopus* Central Nervous System (CNS). *Cold Spring Harbor protocols*, 2021(4).