Resource Summary Report

Generated by NIF on Sep 22, 2026

pSox2-bd::FP

RRID:Addgene_34703
Type: Plasmid

Proper Citation

RRID:Addgene_34703

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: 20260919T091721+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 NIF .

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).