Resource Summary Report

Generated by RRID on Aug 20, 2026

KG#471

RRID:Addgene_110935
Type: Plasmid

Proper Citation

RRID:Addgene_110935

Plasmid Information

URL: http://www.addgene.org/110935

Proper Citation: RRID:Addgene_110935

Insert Name: mig-13 promoter

Organism: Caenorhabditis elegans

Bacterial Resistance: Ampicillin

Defining Citation: PMID:26354975

Vector Backbone Description: Backbone Size:2632; Vector Backbone:pUC; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: Unique multi-cloning sites: Asc I [left of 5’ UTR] / Sbf I/ Kpn I/ EcoRV/ Xho I Used BamH I/ Apa I to cut out the ~825 bp MCS + unc-54 3' control region from KS#1 mig-13:: expression vector (gift of Kang Shen) , leaving the 6.1 kb vector fragment containing the mig-13:: promoter. To this vector fragment, we ligated the 1000 bp BamH I/ Apa I fragment from KG#470. Do Earth minipreps on 2 colonies. Chose 1 clone with correct size fragments and made a glycerol stock. Features of the expression construct: The mig-13 promoter drives expression in DA9 from hatching to adult and VA12 from mid-larval to adult stages. Also drives expression occasionally in PHAL, PVCL, and LUAL in addition to many neurons anterior to the vulva. This vector has 3 synthetic introns for increasing the robustness of intronless insert expression: 1 in the 5' UTR, one just upstream of the unc-54 3' UTR/ control region, and one in the 3' UTR of unc-54. The new MCS in this construct is derived from pPD96.52, with the addition of an 8-cutter Sbf I site between Nhe I and Kpn I. Note: this vector can be converted to a vector that fuses GFP, YFP, or CFP onto the C-terminus of the protein as follows: Remove the ~1000 bp (Kpn I or Age I) + (Spe I or BsiW I [expensive, 55 C cutter with 50% activity at 37 C; heat inactivate 80 C] or Apa I) fragment containing the unc-54 3’ control region from this plasmid and replace it with the ~1800 bp like-digested fragment containing 3-intron S65C GFP (see pPD94.81 in Fire Lab plasmids), YFP (see pPD136.64 in Fire Lab plasmids) or CFP (see

pPD136.61 in Fire Lab plasmids) + the unc-54 3’ UTR and control region. Note if Spe I is used to cut these Fire Lab vectors, you get 3 bands: 1100, 1800, and 4000 (total size 6.9 Kb). The 1800 bp band is the XFP-containing band. For C-terminal fusions, remember to leave the stop codon off of the upstream protein. For the above-mentioned Fire Lab vectors, the reading frame for the downstream XFP relative to the Kpn I and Age I sites is as follows (triplets are the reading frame codons): Kpn I G GTA CCG GT Age I Alternatively, use Gibson Assembly/ NEBuilder to insert any genetically encoded fluorescent protein at the N- or C-terminus of your protein.

Plasmid Name: KG#471

Record Creation Time: 20220422T221540+0000

Record Last Update: 20260815T080144+0000

Ratings and Alerts

No rating or validation information has been found for KG#471.

No alerts have been found for KG#471.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We have not found any literature mentions for this resource.