Resource Summary Report

Generated by dkNET on Sep 5, 2026

KG#80

RRID:Addgene_110875
Type: Plasmid

Proper Citation

RRID:Addgene_110875

Plasmid Information

URL: http://www.addgene.org/110875

Proper Citation: RRID:Addgene_110875

Insert Name: myo-3 promoter

Organism: Caenorhabditis elegans

Bacterial Resistance: Ampicillin

Defining Citation: PMID:15489511

Vector Backbone Description: Backbone Size:2617; Vector Backbone:pUC; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: Note: Always streak out this culture for single colonies and do minipreps on >= 4 clones (~1/2 of colonies will be right). Choose small colonies after 18 - 20h growth. DNA yeild is low (~170 ng/ ul x 30 ul for a Qiagen 3 ml miniprep). Used Age I/ Xho I to cut out the 3800 bp acy-1 cDNA from KG#62 and cloned into the like-digested myo-3 expression vector pPD96.52 (6100 bp). Transform into XL1-Blue electrocompetent cells. Miniprep 4 clones to find one with correct size insert and vector and make glycerol stock and save the DNA. Features of the construct: This expression construct has a promoter (myo-3) that will drive expression of the acy-1 cDNA in the body wall muscle cells. The myo-3 promoter is generally active in body muscles (body wall, vulval, and intestine associated muscles including the anal depressor [Okkema et al., 1993 Genetics; Ardizzi and Epstein 1987 JCB]. The vector contains a "decoy" (see 1995 vector kit documentation) upstream of the promoter to reduce background expression in the gut and pharynx from read-through transcription. An unc-54 3' end containing a poly A addition signal is downstream of the MCS to stop transcription and provide a 3' UTR for the transcript. Three introns in the UTR's are included to give stable and uniform expression (1 in the 5' UTR, 1 just upstream of the unc-54 3' end, and 1 in the unc-54 3' end sequence). This construct includes only the coding region. The sequence AAAA is engineered just after the 5' restriction site and just before the initiator ATG. An AT immediately follows the

TAA stop codon for a consensus stop site. Note: the acy-1 cDNA from which this clone was produced corresponds to the single acy-1 cDNA predicted by wormbase, which is F17C8.1

Plasmid Name: KG#80

Record Creation Time: 20220422T221539+0000

Record Last Update: 20260902T041203+0000

Ratings and Alerts

No rating or validation information has been found for KG#80.

No alerts have been found for KG#80.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We have not found any literature mentions for this resource.