Resource Summary Report

Generated by dkNET on Jul 31, 2026

KG#81

RRID:Addgene_110876
Type: Plasmid

Proper Citation

RRID:Addgene_110876

Plasmid Information

URL: http://www.addgene.org/110876

Proper Citation: RRID:Addgene_110876

Insert Name: myo-3 promoter

Organism: Caenorhabditis elegans

Bacterial Resistance: Ampicillin

Defining Citation: PMID:15489510

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

Comments: 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 Pfu Ultra polymerase and primers engineered with restriction sites to amplify the 3.8 Kb acy-1(P260S) cDNA coding region from KG#63 and cloned into Age I/ Xho I cut pPD96.52 (myo-3:: expression vector). Transformed into XL1-Blue electrocompetent cells. Miniprepped 8 clones to find those with correct size insert and vector, then submitted 2 clones for sequence. Chose one clone that has correct sequence and make glycerol stock and save the DNA. Features of the expression construct: This expression construct has a promoter (myo-3) that will drive strong expression of acy-1 (P260S) 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]. Other features of the expression vector include the unc-54 3' end including the poly A addition signal, and 3 introns (1 in 5' UTR, 1 just upstream of the unc-54 3' end, and 1 inserted in the unc-54 3' end). These introns help provide more uniform and robust expression, especially if you are expressing a cDNA with no introns (as we are) as opposed to a gene with introns. The sequence AAAA is engineered just after the 5' restriction site and just before the initiator ATG to provide a consensus translation start

site. The sequence AT follows the stop codon and immediately precedes the 3' restriction site to provide a consensus post - stop codon sequence. 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 except for the gf mutation in this clone.

Plasmid Name: KG#81

Record Creation Time: 20220422T221539+0000

Record Last Update: 20260725T073503+0000

Ratings and Alerts

No rating or validation information has been found for KG#81.

No alerts have been found for KG#81.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We have not found any literature mentions for this resource.