

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

KG#81

RRID:Addgene_110876

Type: Plasmid

Proper Citation

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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 yield is low (~170 ng/ μ l x 30 μ l 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. Miniprepmed 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: 20260815T080144+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.