

# Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

## KG#62

RRID:Addgene\_110874

Type: Plasmid

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### Proper Citation

RRID:Addgene\_110874

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### Plasmid Information

**URL:** <http://www.addgene.org/110874>

**Proper Citation:** RRID:Addgene\_110874

**Insert Name:** rab-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:** Always streak out this culture for single colonies and do minipreps on  $\geq 4$  clones (~1/2 of colonies will be right). Choose small colonies after 18 - 20h growth. DNA yield is low (~170 ng/  $\mu$ l x 30  $\mu$ 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 cDNA coding region from KG#61 and cloned into Age I/ Xho I cut KG#59 (rab-3:: expression vector). Transform 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 made glycerol stock. Features of the expression construct: This expression construct has a promoter (rab-3) that will drive strong and specific expression of acy-1 cDNA in the entire nervous system of juvenile and adult animals. Other features of the expression vector include a "decoy" 5' to the promoter to reduce non-specific expression in the gut (see Fire Lab 1995 Kit documentation for description), 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. The vector provides the unc-54 3' UTR and control region. 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#62

**Record Creation Time:** 20220422T221539+0000

**Record Last Update:** 20260815T080144+0000

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## Ratings and Alerts

No rating or validation information has been found for KG#62.

No alerts have been found for KG#62.

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## Data and Source Information

**Source:** [Addgene](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.