Resource Summary Report

Generated by RRID on Aug 20, 2026

KG#707

RRID:Addgene_110911
Type: Plasmid

Proper Citation

RRID:Addgene_110911

Plasmid Information

URL: http://www.addgene.org/110911

Proper Citation: RRID:Addgene_110911

Insert Name: sup-1 minigene

Organism: Caenorhabditis elegans

Bacterial Resistance: Ampicillin

Defining Citation: PMID:30254025

Vector Backbone Description: Backbone Size:2124; Vector Backbone:pUC; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: Made by IDT Custom Gene Synthesis. This sup-1 minigene can be inserted in C. elegans introns as a gene editing marker. The minigene begins with the 491 bp unc-17beta promoter. This is an engineered derivative of the full unc-17 promoter that drives expression specifically in cholinergic motor neurons of the ventral nerve cord (AS, DA, DB, VA, VB neuron classes) and not in cholinergic neurons elsewhere in the animal (Jim Rand, personal communication). The sup-1 portion of the minigene contains a single, small native intron (we removed a second, much larger intron) and includes the e995 suppressor mutation that rescues the unc-17(e245) mutant phenotype. The minigene finishes with the C. briggsae unc-119 3' UTR, previously used in the unc-119 marker gene (FROKJAER-JENSEN et al. 2008). After searching the reverse orientation of the minigene sequence with the consensus spice acceptor sequence WTNYAG, we replaced 11 potential splice acceptors in the coding region, intron, and 3' UTR with silent mutations. The AT content of the minigene is 63%, which approaches the 70% average for introns (BLUMENTHAL AND STEWARD 1997). The total size of the sup-1 minigene is 1112 bp.

Plasmid Name: KG#707

Record Creation Time: 20220422T221539+0000

Record Last Update: 20260815T080144+0000

Ratings and Alerts

No rating or validation information has been found for KG#707.

No alerts have been found for KG#707.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We have not found any literature mentions for this resource.