

Specifications:

Gene:	mAdipoR1
Accession:	NP_082596
Insert size:	1141bp
Concentration:	10µg at 0.2µg/µL

mAdipoR1 cDNA Plasmid

AdipoR1 adiponectin receptor 1
[*Mus musculus* (house mouse)]

Also known as: Paqr1; ACDCR1;
CGI-45; 2810031L11Rik

Summary:

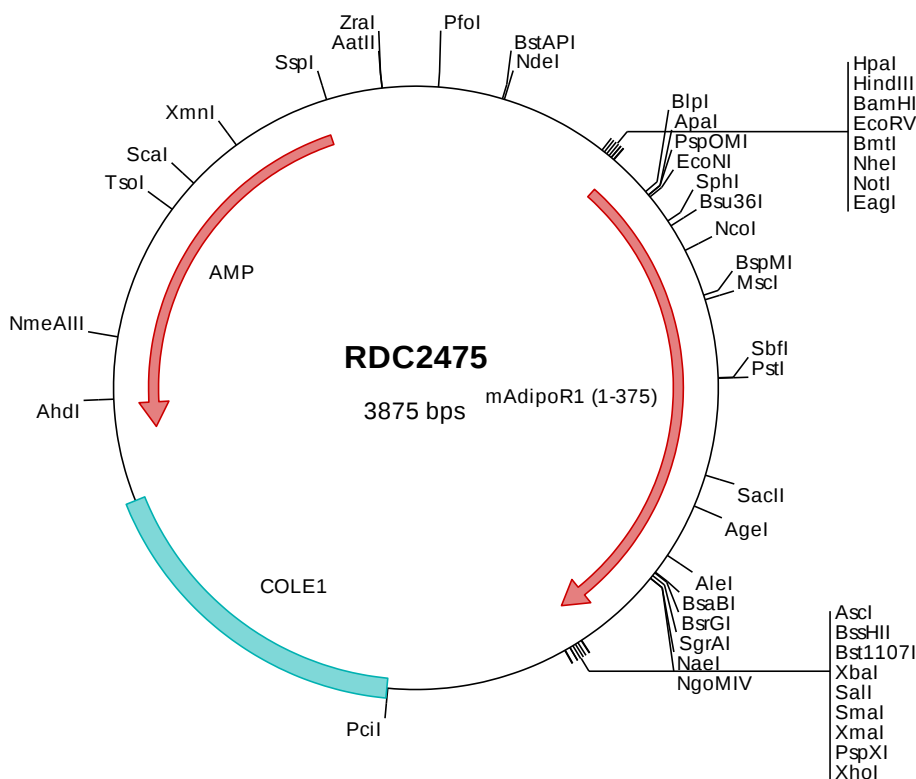
AdipoR1 is a receptor for adiponectin, a hormone secreted by adipocytes which regulates fatty acid catabolism and glucose levels. Adiponectin induces extracellular calcium influx through AdipoR1. Binding of adiponectin to AdipoR1 results in the activation of an AMP-activated kinase signaling pathway which affects levels of fatty acid oxidation and insulin sensitivity. Muscle-specific disruption of AdipoR1 suppresses the adiponectin-mediated increase in intracellular calcium concentration, and decreases the activation of CaMkk, AMPK, and SIRT1 by adiponectin.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2475 Plasmid DNA Sequence

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> RDC2475 Translated Insert Sequence

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