

Specifications:

Gene:	hAdipoR1
Accession:	NP_057083
Insert size:	1140bp
Concentration:	10µg at 0.2µg/µL

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.

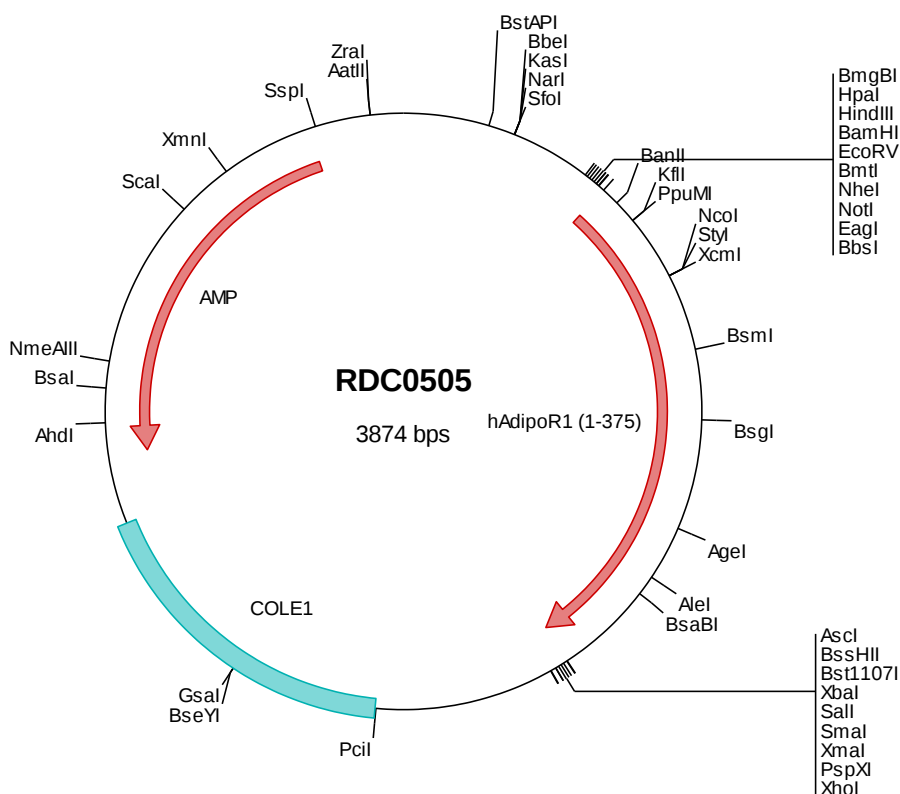
hAdipoR1 cDNA Plasmid

ADIPOR1 adiponectin receptor 1 [*Homo sapiens*]

Also known as: CGI45; PAQR1;
ACDCR1; CGI-45; TESBP1A

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.





> RDC0505 Plasmid DNA Sequence

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1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
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201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtttggta acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tgcctagcgc ggccgccacc atgtctctcc acaaaggatc tgtgttgga caggggaatg gggctcctgc
501  cagtaaacagg gaagctgaca cggtggaact ggctgaactg ggaccctgc tagaagagaa gggcaaacgg gtaatcgcca accaccccaa agctgaagaa
601  gagcaaacat gccagtgccc ccaggaagaa gaggaggagg tgcgggtact gacacttccc ctgcaagccc accacgccaat ggagaagatg gaagagtttg
701  tgtacaaggt ctgggaggga cgttgaggag tcatcccata tgatgtgtct cctgactggc taaaggacaa cgactatctg ctacatggtc atagacctcc
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901  ttgggaatct tgactatgct cagaccaaat atgtacttca tggccccctc acaggagaag gtggtttttg ggatgttctt tttgggtgca gtgctctgcc
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> RDC0505 Translated Insert Sequence

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201  srtfksldys giallimgsf vpwllysfyc spqprliyls ivcvlgisai ivaqwdrfat pkhrqtragr flglglsgvv ptmhftiaeg fvkattvgqm
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