

Product datasheet for RC237823

Adiponectin Receptor 1 (ADIPOR1) (NM_001290553) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adiponectin Receptor 1 (ADIPOR1) (NM_001290553) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adiponectin Receptor 1
Synonyms:	ACDCR1; CGI-45; CGI45; PAQR1; TESBP1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237823 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTCCCACAAAGGATCTGTGGTGGCACAGGGGAATGGGGCTCCTGCCAGTAACAGGGAAGCTGACA
CGGTGGAAGTGGCTGAACTGGGACCCCTGCTAGAAGAGAAGGGCAAACGGGTAATCGCCAACCCACCCAA
AGCTGAAGAAGAGCAAACATGCCAGTGGCCAGGAAGAAGAGGAGGAGGTGCGGGTACTGACACTTCCC
CTGCAAGCCACCCAGCCATGGAGAAGATGGAAGATTTGTGTACAAGGCTGGGAGGGACGTTGGAGGG
TCATCCCATATGATGTGCTCCCTGACTGGCTAAAGGACAACGACTATCTGCTACATGGTCATAGACCTCC
CATGCCCTCCTTTCGGGCTTGTCTCAAGAGCATCTCCGATTACATACAGAACTGGCAACATCTGGACC
CATCTGCTTGGTTTCGTGCTGTTTCTCTTTTTGGGAATCTTGACCATGCTCAGACCAAATATGACTTCA
TGGCCCTCTACAGGAGAAGGTGGTTTTTGGGATGTTCTTTTTGGGTGCAGTGTCTGCCTCAGCTTCTC
CTGGCTCTTTCACACCGTCTATTGTCAATCAGAGAAAGTCTCTCGGACTTTTTCCAACTGGACTATTCA
GGGATTGCTCTTCTAATTATGGGAGCTTTGTCCCCTGGCTCTATTATTCCTTCTACTGCTCCACACGC
CACGGCTCATCTACCTCTCCATCGTCTGTGTCTGGGCATTTCTGCCATCATTGTGGCGCAGTGGGACCG
GTTTGGCACTCCTAAGCACCGGCAGACAAGAGCAGGCGTGTCTGGGACTTGGCTTGTAGTGGCGTCTGT
CCCACCATGCACCTTACTATCGCTGAGGGCTTTGTCAAGGCCACCACAGTGGGCGAGTGGGCTGGTTCT
TCCTCATGGCTGTGATGTACATCACTGGAGCTGGCCTTTATGCTGCTCGAATTCCTGAGCGCTTCTTCC
TGGAAAATTTGACATATGGTTCCAGTCTCATCAGATTTTCCATGCTCCTGGTGGTGGCAGCAGCCTTTGTC
CACTTCTATGGAGTCTCCAACCTTCAGGAATTCGGTTACGGCCTAGAAGCGGCTGTACTGATGACACCC
TTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237823 protein sequence
Red=Cloning site Green=Tags(s)

MSSHKGSVVAQNGAPASNREADTVELAELGPLLEEKGRVIANPPKAEETCPVPQEEEEVRLTLP
 LQAHAMEKMEEFVYKVEGRWRVIPYDVLDPWLKNDYLLHHRPPMPSFRACFKSIFRIHTETGNIWT
 HLLGFVLFLLGILTMLRPNMYFMAPLQEKVVFVGMFFLGAVLCLSF SWLFHTVYCHSEKVSRTFSKLDYS
 GIALLIMGSFVPLYYSFYCSPQPRLIYLSIVCVLGISAIIVAQWDRFATPKHRQTRAGVFLGLSGVV
 PTMHFTIAEGFVKATTVGQMGWFFLMVMYITGAGLYAARIPERFFPGKFDIWFQSHQIFHVLVAAAFV
 HFYGVSNLQEFRYGLEGGCTDDTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6147_h08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001290553

ORF Size: 1125 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001290553.1](#), [NP_001277482.1](#)

RefSeq Size: 2048 bp

RefSeq ORF: 1128 bp

Locus ID: 51094

UniProt ID: [Q96A54](#)

Cytogenetics: 1q32.1

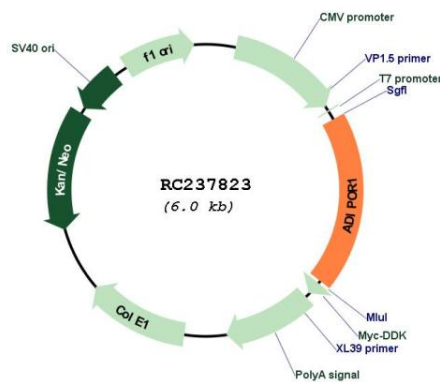
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Adipocytokine signaling pathway

MW: 42.6 kDa

Gene Summary: This gene encodes a protein which acts as a receptor for adiponectin, a hormone secreted by adipocytes which regulates fatty acid catabolism and glucose levels. Binding of adiponectin to the encoded protein results in activation of an AMP-activated kinase signaling pathway which affects levels of fatty acid oxidation and insulin sensitivity. A pseudogene of this gene is located on chromosome 14. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RC237823