

## Product datasheet for RC237824

### Adiponectin Receptor 1 (ADIPOR1) (NM\_001290557) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adiponectin Receptor 1 (ADIPOR1) (NM_001290557) 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:	>RC237824 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTTCCACAAAGGATCTGTGGTGGCACAGGGGAATGGGGCTCCTGCCAGTAACAGGGAAGCTGACA  
CGGTGGAAGTGGCTGAAGTGGGACCCCTGCTAGAAGAGAAGGGCAACCGGTAATCGCCAACCCACCCAA  
AGCTGAAGAAGAGCAAACATGCCAGTGGCCAGGAAGAAGAGGAGGAGGTGCGGGTACTGACACTTCCC  
CTGCAAGCCACCCAGCCATGGAGAAGATGGAAGATTTGTGTACAAGGCTGGGAGGGACGTTGGAGGG  
TCATCCCATATGATGTGCTCCCTGACTGGCTAAAGGACAACGACTATCTGCTACATGGTCATAGACCTCC  
CATGCCCTCCTTTCGGGCTTGTCAAGAGCATCTCCGATTACATACAGAACTGGCAACATCTGGACC  
CATCTGCTTGGTTTCGTGCTGTTTCTCTTTTTGGGAATCTTGACCATGCTCAGACCAAATATGACTTCA  
TGGCCCTCTACAGGAGAAGGTGGTTTTTGGGATGTTCTTTTTGGGTGCAGTGTCTGCCTCAGCTTCTC  
CTGGCTCTTTCACACCGTCTATTGTCAATCAGAGAAAGTCTCTCGGACTTTTTCCAACTGGACTATTCA  
GGGATTGCTCTTCTAATTATGGGAGCTTTGTCCCCTGGCTCTATTATTCCTTCTACTGCTCCACAGC  
CACGGCTCATCTACCTCTCCATCGTCTGTGTCTGGCATTCTGCCATCATTGTGGCGCAGTGGGACCG  
GTTTGGCACTCCTAAGCACCGGCAGACAAGAGCAGGCGTGTCTGGGACTTGGCTTGTAGTGGCGTCTGT  
CCCACCATGCACCTTACTATCGCTGAGGGCTTTGTCAAGGCCACCACAGTGGGCGAGATGGGCTGGTTCT  
TCCTCATGGCTGTGATGTACATCACTGGAGCTGGCCTTTATGCTGCTCGAATTCCTGAGCGCTTCTTTCC  
TGGAAAATTTGACATATGGTTCCAGTCTCATCAGATTTTCCATGCTCCTGGTGGTGGCAGCAGCCTTTGTC  
CACTTCTATGGAGTCTCCAACCTTCAGGAATTCGGTTACGGCCTAGAAGCGGCTGTACTGATGACACCC  
TTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237824 protein sequence  
 Red=Cloning site Green=Tags(s)

MSSHKGSVVAQNGAPASNREADTVLAEELGPLLEEKGRVIANPPKAEETCPVPQEEEEVRLTLP  
 LQAHAMEKMEEFVYKVEGRWRVIPYDVLDPWLKNDYLLHHRPPMPSFRACFKSIFRIHTETGNIWT  
 HLLGFVLFLLGILTMLRPNMYFMAPLQEKVVFVGMFFLGAVLCLSF SWLFHTVYCHSEKVSRTFSKLDYS  
 GIALLIMGSFVPLYYSFYCSQPRLIYLSIVCVLGISAIIVAQWDRFATPKHRQTRAGVFLGLSGVV  
 PTMHFTIAEGFVKATTVGQMGWFFLMVMYITGAGLYAARIPERFFPGKFDIWFQSHQIFHVLVAAAFV  
 HFYGVSNLQEFRYGLEGGCTDDTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6147\\_h08.zip](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\_001290557

**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\\_001290557.1](#), [NP\\_001277486.1](#)

**RefSeq Size:** 2251 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 51094

**UniProt ID:** [Q96A54](#)

**Cytogenetics:** 1q32.1

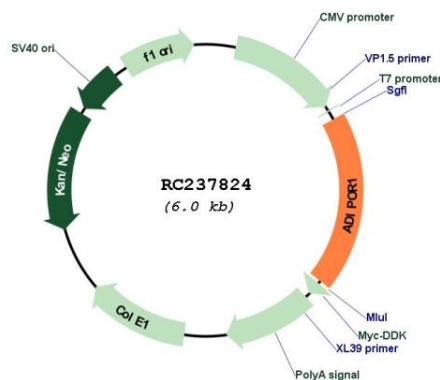
**Protein Families:** Druggable Genome, Transmembrane

**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 RC237824