

Product datasheet for **RG237823**

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:	TurboGFP
Symbol:	Adiponectin Receptor 1
Synonyms:	ACDCR1; CGI-45; CGI45; PAQR1; TESBP1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237823 representing NM_001290553. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTTCCCACAAGGATCTGTGGTGGCACAGGGGAATGGGGCTCCTGCCAGTAACAGGGAAGCTGAC
ACGGTGGAACTGGCTGAACTGGGACCCCTGCTAGAAGAGAAGGGCAAACGGGTAATCGCCAAACCCACC
AAAGCTGAAGAAGAGCAAACATGCCAGTGCCCCAGGAAGAAGAGGAGGAGGTGCGGGTACTGACACTT
CCCCTGCAAGCCACCACGCCATGGAGAAGATGGAAGAGTTTGTGTACAAGGTCTGGGAGGGACGTTGG
AGGGTCATCCCATATGATGTGCTCCCTGACTGGCTAAAGGACAACGACTATCTGTACATGGTCATAGA
CCTCCCATGCCCTCCTTCGGGCTTGTCTCAAGAGCATCTCCGCATTCACAGAACTGGCAACATC
TGGACCCATCTGCTTGGTTTCGTGCTGTTCTCTTTTTGGGAATCTTGACCATGCTCAGACCAAATATG
TACTTCATGGCCCTCTACAGGAGAAGGTGGTTTTTGGGATGTTCTTTTTGGGTGCAAGTCTCTGCCCTC
AGCTTCTCCTGGCTCTTTCACACCGTCTATTGTCAATTCAGAGAAAGTCTCTCGGACTTTTTCCAAACTG
GACTATTCAGGGATTGCTCTTCTAATTATGGGGAGCTTTGTCCCCTGGCTCTATTATTCCTTCTACTGC
TCCCCACAGCCACGGCTCATCTACCTCTCCATCGTCTGTGCTCCTGGGCATTTCTGCCATCATTGTGGCG
CAGTGGGACCGGTTTGCCACTCCTAAGCACCGGCAGACAAGAGCAGGCGTGTCTGGGACTTGGCTTG
AGTGGCGTCGTGCCACCATGCACTTTACTATCGCTGAGGGCTTTGTCAAGGCCACCACAGTGGGCCAG
ATGGGCTGTTCTTCTCATGGCTGTGATGTACATCACTGGAGCTGGCCTTTATGCTGCTCGAATTCCT
GAGCGCTTCTTCTGGAAAATTTGACATATGGTTCCAGTCTCAGATTTCATGTCCTGCTGGTGGTG
GCAGCAGCCTTTGTCCACTTCTATGGAGTCTCCAACCTTCAGGAATTCGGTTACGGCCTAGAAGGGCGC
TGTACTGATGACACCCTTCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237823
 Blue=ORF Red=Cloning site Green=Tag(s)

MSSHKGSVVAQNGAPASNREADTVLAEELGPLLEEKGRVIANPPKAEETQCPVPQEEEEVRLTL
 PLQAHAMEKMEEFVYKVEGRWRVIPYDVLPDWLKNDYLLHGRPPMPSFRACFKSIFRIHTETGNI
 WTHLLGFVLFLLGILTMLRPNMYFMAPLQEKVVFVGMFLLGAVLCLSFVSWLFHTVYCHSEKVSRTF SKL
 DYSGIALLIMGSFVFWL YYSFYCSQPRLIYLSIVCVLGISAIIVAQWDRFATPKHRQTRAGVFLGLGL
 SGVVP TMHFTIAEGFVKATTVVGQMGWFFLMAVMIYITGAGLYAARIPERFFPGKFDIWFQSHQIFHVLV
 AAFAVHFYGVSNLQEFRYGLEGGCTDDTLL
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

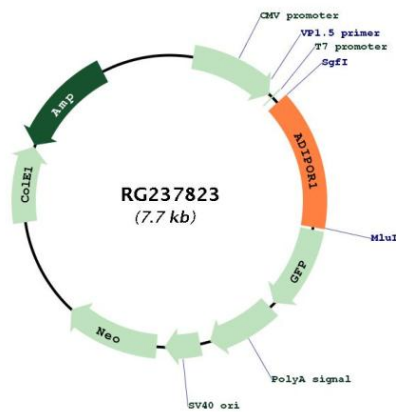
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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 RG237823