

Product datasheet for **RG229756**

Adiponectin (ADIPOQ) (NM_001177800) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adiponectin (ADIPOQ) (NM_001177800) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adiponectin
Synonyms:	ACDC; ACRP30; ADIPQTL1; ADPN; APM-1; APM1; GBP28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229756 representing NM_001177800 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTGCTGGGAGCTGTTCTACTGCTATTAGCTCTGCCGGTCATGACCAGGAAACCACGACTCAAG
GGCCCGGAGTCTGCTTCCCTGCCAAGGGGGCCTGCACAGTTGGATGGCGGGCATCCAGGGCATCC
GGGCCAATATGGGGCCCCAGGCCGTGATGGCAGAGATGGCACCCCTGGTGAAGGGTGAGAAAGGAGAT
CCAGGTCTTATTGGTCTAAGGGAGACATCGGTGAAACCGGAGTACCCGGGGCTGAAGGTCCCCGAGGCT
TTCCGGGAATCCAAGGCAGGAAAGGAGAACCTGGAGAAGGTGCCTATGTATACCGCTCAGCATTAGTGT
GGGATTGGAGACTTACGTTACTATCCCCAACATGCCATTTCGCTTACCAAGATCTTCTACAATCAGCAA
AACCACATGATGGCTCCACTGGTAAATTCCACTGCAACATTCCTGGGCTGTAATACTTTGCCTACCACA
TCACAGTCTATATGAAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGA
TCAGTACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGCGACCAA
GTCTGGCTCCAGGTGATGGGGAAGGAGCGTAATGGACTCTATGCTGATAATGACAATGACTCCACCT
TCACAGGCTTTCTCTCTACCATGACACCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229756 representing NM_001177800
Red=Cloning site Green=Tags(s)

MLLLGAVLLLLALPGHDQETTTQGPVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDGTPEKGEKGD
 PGLIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGAYVYRASFVSGLETYYVTIPNMPIRFTKIFYNQQ
 NYHDGSGTKFHCNIPGLYYFAYHITVYMKDVKVSLEFKKDKAMLFITYDQYQENNVDQASGSVLLHLEVDQ
 VWLQVYGEGERNGLYADNDNDSTFTGFLLYHDTN

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2398_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001177800

ORF Size: 732 bp

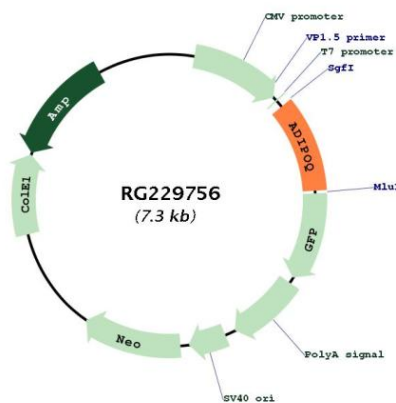
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_001177800.2</u>
RefSeq Size:	4629 bp
RefSeq ORF:	735 bp
Locus ID:	9370
UniProt ID:	<u>Q15848</u>
Cytogenetics:	3q27.3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Adipocytokine signaling pathway, PPAR signaling pathway, Type II diabetes mellitus
Gene Summary:	This gene is expressed in adipose tissue exclusively. It encodes a protein with similarity to collagens X and VIII and complement factor C1q. The encoded protein circulates in the plasma and is involved with metabolic and hormonal processes. Mutations in this gene are associated with adiponectin deficiency. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Apr 2010]

Product images:



Circular map for RG229756