

Product datasheet for **SC328394**

Adiponectin (ADIPOQ) (NM_001177800) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adiponectin (ADIPOQ) (NM_001177800) Human Untagged Clone
Tag:	Tag Free
Symbol:	Adiponectin
Synonyms:	ACDC; ACRP30; ADIPQTL1; ADPN; APM-1; APM1; GBP28
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001177800 edited
 GCCATCTCCTCCTCACTTCCATTCTGACTGCAGTCTGTGGTTCTGATTCCATACCAGAGG
 GGCTCAGGATGCTGTTGCTGGGAGCTGTTCTACTGCTATTAGCTCTGCCCGGTCATGACC
 AGGAAACCACGACTCAAGGGCCCGGAGTCTGCTTCCCCTGCCAAGGGGGCCTGCACAG
 GTTGGATGGCGGGCATCCCAGGGCATCCGGGCCATAATGGGGCCCAGGCCGTGATGGCA
 GAGATGGCACCCCTGGTGAAGGGTGAAGAGGAGATCCAGGTCTTATTGGTCCTAAGG
 GAGACATCGGTGAAACCGGAGTACCCGGGGCTGAAGTCCCCGAGGCTTCCGGGAATCC
 AAGGCAGGAAAGGAGAACCTGGAGAAGTGCCTATGTATACCGCTCAGCATTTCAGTGTGG
 GATTGGAGACTTACGTTACTATCCCAACATGCCATTGCTTTACCAAGATCTTCTACA
 ATCAGCAAACCCTATGATGGCTCCACTGGTAAATTCCACTGCAACATTCTGGGCTGT
 ACTACTTTGCCTACCACATCACAGTCTATATGAAGGATGTGAAGGTCAGCCTCTTCAAGA
 AGGACAAGGCTATGCTCTTACCTATGATCAGTACCAGGAAAATAATGTGGACCAGGCCCT
 CCGGCTCTGTGCTCCTGCATCTGGAGGTGGGCGACCAAGTCTGGCTCCAGGTGTATGGG
 AAGGAGAGCGTAATGGACTCTATGCTGATAATGACAATGACTCCACCTTACAGGCTTTC
 TTCTTACCATGACACCAACTGATCACCCTAACTCAGAGCCTCCTCCAGGCCAAACAGC
 CCCAAAGTCAATTAAGGCTTTCAGTACGGTTAGGAAGTTGATTATTATTAGTTGGAGG
 CCTTTAGATATTATTCATTTCATTTACTCATTTCATTTATTTCATTTCATCAAGTAACTT
 TAAAAAATCATATGCTATGTTCCAGTCTGGGGAGCTTCAAAAATGACCAGATAAC
 TGACTAGAAAAGTAGTTGACAGTGTATTTTGTGCCACTGTCTCTCCTGATGCTCAT
 ATCAATCTATAAGGCACAGGGAACAAGCATTCTCCTGTTTTTACAGATTGTATCCTGAG
 GCTGAGAGAGTTAAGTGAATGTCTAAGGTCACACAAGTATTAAGTACAGTGTAGAAAT
 CAAACCCAGAGCTGTGGACTTTGTTCACTAGACTGTGCCCTTTTATAGAGGTACATGTTT
 TCTTTGGAGTGTGGTAGGTGTCTGTTTCCACCTCACCTGAGAGCCATTGAATTTGCCCT
 TCCTCATGAATTAACCTCCCAAGCAGAGCTTCCTCAGAGAAAGTGGTTCTATGATG
 AAGTCCTGTCTTGAAGGACTACTACTCAATGGCCCTGCACTACTCTACTTCTCTTAC
 CTATGTCCCTTCTCATGCCTTTCCCTCCAACGGGGAAAGCCAACCTCCATCTAAGTGTCT
 GAACTCATCCCTGTTCTCAAGGCCACCTGGCCAGGAGCTTCTCTGATGTGATATCCACT
 TTTTTTTTTTTTGGAGTGGAGTCTCACTCTGTCACCCAGGCTGGAGTACAGTACACGA
 CCTCGGCTCACTGCAGCCTCCTTCTCCTGGTCCAAGCAATTATTGTGCCTCAGCCTCCC
 GAGTAGCTGAGACTTCAGGTGCATTCCACCACACATGGCTAATTTTTGTATTTTTAGTAG
 AAATGGGGTTTTGTCATGTTGGCCAGGCTGGTCTCGAAGTCTGGCCTAGGTGATCCACC
 CGCCTCGACCTCCCAAAGTGTGGGATTACAGGCATGAGCCACCATGCCAGTGCATATC
 TCACTTTTTATTTGCCATGGATGAGAGTCTGGGTGTGAGGAACACCTCCCACCAGGCT
 AGAGGCAACTGCCAGGAAGGACTGTGCTTCCGTACCTCTAAATCCCTTGCAGATCCTT
 GATAAATGCCTCATGAAGACCAATCTCTTGAATCCCGTATCTACCAGAAATTAATCCAT
 TCCAGTCTCTGCATGTAATCAGTTTTATCCACAGAAACATTTTCATTTTAGGAAATCCCT
 GGTTTTAAAGTATCAATCCTTGTTCAGCTGGACAATATGAATCTTTTCACTGAAGTTAGG
 GATGACTGTGATTTTTCAGAACACGTCCAGAATTTTTCATCAAGAAGGTAGCTTGAGCCTG
 AAATGCAAACCCATGGAGGAATTC

Restriction Sites: Please inquire
ACCN: NM_001177800
Insert Size: 2200 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001177800.1](#), [NP_001171271.1](#)

RefSeq Size: 4629 bp

RefSeq ORF: 735 bp

Locus ID: 9370

UniProt ID: [Q15848](#)

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]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.