

Product datasheet for **SC124047**

Adiponectin (ADIPOQ) (NM_004797) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adiponectin (ADIPOQ) (NM_004797) Human Untagged Clone
Tag:	Tag Free
Symbol:	Adiponectin
Synonyms:	ACDC; ACRP30; ADIPQTL1; ADPN; APM-1; APM1; GBP28
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004797, the custom clone sequence may differ by one or more nucleotides

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ATGCTGTTGCTGGGAGCTGTTCTACTGCTATTAGCTCTGCCCGGTCATGACCAGGAAACCACGACTCAAG
GGCCCGGAGTCTGCTTCCCTGCCAAGGGGGCCTGCACAGGTTGGATGGCGGGCATCCCAGGGCATCC
GGGCCATAATGGGGCCCCAGGCCGTGATGGCAGAGATGGCACCCCTGGTGAGAAGGGTGAGAAAGGAGAT
CCAGGTCTTATTGGTCTAAGGGAGACATCGGTGAAACCCGGAGTACCCGGGGCTGAAGGTCCCCGAGGCT
TTCCGGGAATCCAAGGCAGGAAAGGAGAACCTGGAGAAGGTGCCTATGTATACCGCTCAGCATTAGTGT
GGGATTGGAGACTTACGTTACTATCCCCAACATGCCATTGCTTTACCAAGATCTTCTACAATCAGCAA
AACCACTATGATGGCTCCACTGGTAAATCCACTGCAACATTCTGGGCTGTACTACTTTGCCTACCACA
TCACAGTCTATATGAAGGATGTGAAGGTGAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTACCTATGA
TCAGTACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGGCGACCAA
GTCTGGCTCCAGGTGTATGGGAAGGAGAGCGTAATGGACTCTATGCTGATAATGACAATGACTCCACCT
TCACAGGCTTTCTCTCTACCATGACACCAACTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004797 unedited</p> <pre> NNNNGGTGACGTTTCAGTATTTGTAAACGACTCACTATAGGCGGCCGGAATTCGCACGA GGCAGTCTGTGGTTCTGATTCCATACCANAGGGCTCAGGATGCTGTTGCTGGGAGCTGTT CTACTGCTATTAGCTCTGCCCGGCATGACCAGGAAACCACGACTCAAGGGCCCCGAGTC CTGCTTCCCCTGCCCAAGGGGGCCTGCACAGTTGGATGGCGGCATCCCAGGGCATCCG GGCCATAATGGGGCCCCAGGCCGTGATGGCAGAGATGGCACCCCTGGTGAGAAGGGTGAG AAAGGAGATCCAGTCTTATTGGTCCTAAGGGAGACATCGGTGAAACCGGAGTACCCGGG GCTGAAGGTCCCCGAGGCTTTCCGGGAATCCAAGGCAGGAAAGGAGAACCTGGAGGAAGT GCCTATGTATAACCGCTCAGCATTCAAGTGTGGGATTGGAGACTTACGTTACTATCCCCAAC ATGCCATTGCTTACCAAGATCTTCTACAATCAGCAAAACCCCTTGATGGCTCCACTGG TAAAATTCAGTCAACATTCTGGGGCTGGACTAACTGGCCTACCCCTCCCAGTCTATA TGAAGGATGGGAAGGGAACCCCTTTTAAAAAAGGAAAAGGGCTATCCCCTCCCCTTGAAT CAGTCCCCGAAAAAAATGTGGGCCAAGCCCTTCGGGTTTTGGGGTCCCTGAATTTGGAG GGGGCGAACCAATTCTGGCTCCCAGTGTGGTTGGGGGAAGAGAGACCCCGACGGGCC TTATCCGAAAAAAGGGACAGGAATCCACCATTTAAAGGGGTTTTCTTTNTCCCCTGGAG CCGACCGTGATCCCAATAAGAAGGATCTCCCAGGGGAAAGACGTCTAAAGGT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004797 unedited</p> <pre> AGAGGCACTGAGGAGGGGTCACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTATG ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTGGTTTTAAATTCAACAATTTTAT TAAATATAAATTGTCAAACACCAATTAAGACAGATATTTTACTGGATAAAAATT ATACCAACTACATGCAGTCTGTAAGAAACACATTTTAAATAACAATAATATAGATATATT TAAAGTAACATGATGGAAAAAGATATACCACAAAAACACTAATCAAAGAAAGTTGACCA GGTGTGATGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACA AAGTCAGGAGTTTGAAACCAACCTGACGAATGTGGTGAACCCCGTCTCTACGAAAAATA CAAAAAATTAGCTGGGGCGCAGTGGCATGAGCCTGTAGTTCAGCTACTTTGGAGGCTGA GGCAGGAAAAATTTGCTATGGTAAGGTTACAGTGAGCCAGATCACACCACTTGACTCCAGC CAGGGCCACAAAAACGAGAGTCTGTCNAANAAAGAGGGGGGGAGAGAGAGAGAAAAAAA GGGGGAAAGAAGGAANGGAAANANANANAGAGAAAAAGAAAGGAGGGGAGAAAAAGGGA AGGGAGAAAAAAAAGAAATTTGAATGCGTATGTATTTTTTAAACAGATTGACTTTTCAAC CCCCGAAAATTTCCCGTTTAAAGAAGGACTTTTCTTATGGTATGA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_004797
Insert Size:	4700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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: [NM_004797.2](#), [NP_004788.1](#)

RefSeq Size: 4592 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 (2) differs in the 5' UTR compared to variant 1. 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.