

## Product datasheet for RC215161

### Adiponectin (ADIPOQ) (NM\_004797) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adiponectin (ADIPOQ) (NM_004797) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adiponectin
Synonyms:	ACDC; ACRP30; ADIPQTL1; ADPN; APM-1; APM1; GBP28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215161 representing NM_004797 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGTTGCTGGGAGCTGTTCTACTGCTATTAGCTCTGCCGGGCATGACCAGGAAACCACGACTCAAG  
GGCCCGGAGTCTGCTTCCCTGCCAAGGGGGCCTGCACAGTTGGATGGCGGGCATCCAGGGCATCC  
GGGCCATAATGGGGCCCCAGGCCGTGATGGCAGAGATGGCACCCCTGGTGAAGGGTGAGAAAGGAGAT  
CCAGGTCTTATTGGTCTAAGGGAGACATCGGTGAAACCGGAGTACCCGGGGCTGAAGGTCCCCGAGGCT  
TTCCGGGAATCCAAGGCAGGAAAGGAGAACCTGGAGAAGGTGCCTATGTATACCGCTCAGCATTAGTGT  
GGGATTGGAGACTTACGTTACTATCCCCAACATGCCATTTCGCTTACCAAGATCTTCTACAATCAGCAA  
AACCACATGATGGCTCCACTGGTAAATTCCACTGCAACATTCCTGGGCTGTAATACTTTGCCTACCACA  
TCACAGTCTATATGAAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTACCTATGA  
TCAGTACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGGCGACCAA  
GTCTGGCTCCAGGTGATGGGGAAGGAGCGTAATGGACTCTATGCTGATAATGACAATGACTCCACCT  
TCACAGGCTTTCTCTACCATGACACCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_004797.1](#)

**RefSeq Size:** 4592 bp

**RefSeq ORF:** 735 bp

**Locus ID:** 9370

**UniProt ID:** [Q15848](#)

**Cytogenetics:** 3q27.3

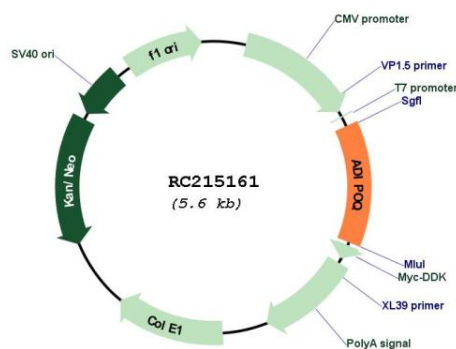
**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Adipocytokine signaling pathway, PPAR signaling pathway, Type II diabetes mellitus

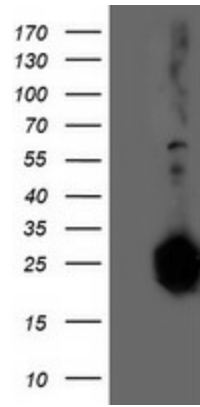
**MW:** 26.41 kDa

**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]

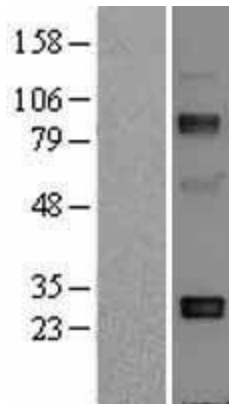
## Product images:



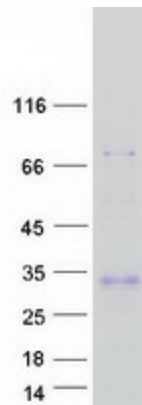
Circular map for RC215161



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ADIPOQ (Cat# RC215161, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ADIPOQ (Cat# [TA503801]). Positive lysates [LY401510] (100ug) and [LC401510] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401510]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215161 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ADIPOQ protein (Cat# [TP315161]). The protein was produced from HEK293T cells transfected with ADIPOQ cDNA clone (Cat# RC215161) using MegaTran 2.0 (Cat# [TT210002]).