

Product datasheet for RC208693

Adiponectin Receptor 2 (ADIPOR2) (NM_024551) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Adiponectin Receptor 2 (ADIPOR2) (NM_024551) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Adiponectin Receptor 2 |
| Synonyms: | ACDCR2; PAQR2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC208693 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGAGCCAACAGAAAACCGATTGGGGTGCAGCAGGACTCCAGAGCCAGATAAAGGCTCAGAAAAG
GGCACCAACTGGATGGTACACGAAGAGGTGATAATGACAGCCACCAAGGAGATTTGGAGCCATTTTAGA
GGCATCTGTTCTATCTTCCCATCAAAAAAGCTCTGAGGAACATGAATACAGTGATGAAGCTCCTCAG
GAAGATGAGGGCTTTATGGGCATGTCCCCTCTTTACAAGCCCATCATGCTATGGAAAAATGGAAGAAT
TTGTTTGAAGGTATGGGAAGGTCGGTGGCGAGTGATCCCTCATGATGTACTACCAGACTGGCTCAAGGA
TAATGACTTCCTCTTGATGGACACCGGCTCCTATGCCTCTTTCCGGGCTGTTTTAAGAGCATTTTC
AGAATACACAGAAAACAGGCAACATTTGGACACATCTCTTAGGTTGTGTATTCTTCCTGTGCTGGGA
TCTTTTATATGTTTCGCCAAATATCTCCTTTGTGGCCCTCTGCAAGAGAAGGTGGTCTTTGGATTATT
TTTCTTAGGAGCCATTCTCTGCCTTTCTTTTCATGGCTCTTCCACACAGTCTACTGCCACTCAGAGGGG
GTCTCTCGGCTCTTCTAACTGGATTACTCTGGTATTGCTCTTCTGATTATGGGAAGTTTTGTTCCTT
GGCTTTATTATTCTTCTACTGTAATCCACAACCTTGCTTCATCTACTTGATTGTCATCTGTGTGCTGGG
CATTGCAGCCATTATAGTCTCCAGTGGGACATGTTGCCACCCCTCAGTATCGGGGAGTAAGAGCAGGA
GTGTTTTTGGCCCTAGGCTGAGTGGAAATCATTCTACCTGCACTATGTCATCTCGGAGGGGTTCTTA
AGGCCGCCACCATAGGGCAGATAGGCTGGTTGATGCTGATGGCCAGCCTCTACATCACAGGAGCTGCCTT
GTATGCTGCCCGATCCCCGAACGCTTTTTCCCTGGCAAATGTGACATCTGGTTTCACTCTCATCAGCTG
TTTCATATCTTTGTGGTTGCTGGAGCTTTTGTCACTTCCATGGTGTCTCAAACCTCCAGGAGTTTCGTT
TCATGATCGGGGGGCTGCAGTGAAGAGGATGCACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208693 protein sequence
Red=Cloning site Green=Tags(s)

MNEPTENRLGCSRTPEPDIRLRKKGHQLDGTTRGDNDSHQGDLEPILEASVLSHHKKSSEEHEYSDEAPQ
 EDEGFMGMSPLLQAHAMEKMEEFVCKVWEGRWVIPHDLVPDWLKDNDLHGHRRPMPSPFRACFKSIF
 RIHTETGNIWTHLLGCVFFLCLGIFYMFRPNISFVAPLQEKVVFLGAILCLSFSWLFHTVYCHSEG
 VSRLFSKLDYSGIALLIMGSFVPLYYSFYCNQPFCFIYLIVICVLGIAAIIVSQWDMFATPQYRGVRAG
 VFLGLGLSGIIPTLHYVISEGFLKAATIGQIGWMLMASLYITGAALYAARIPERFFPGKCDIWFHSHQL
 FHIFVVAGAFVHFHGVSNLQEFRMIGGCSEEDAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6147_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_024551

ORF Size: 1158 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).

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_024551.3](#)

RefSeq Size: 3982 bp

RefSeq ORF: 1161 bp

Locus ID: 79602

UniProt ID: [Q86V24](#)

Cytogenetics: 12p13.33

Domains: UPF0073

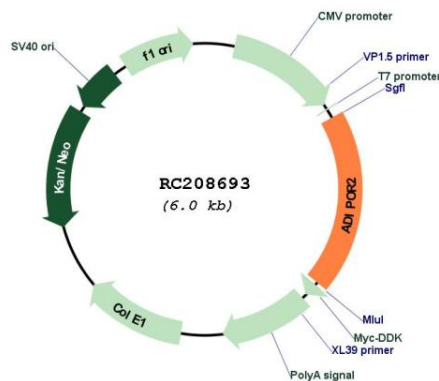
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Adipocytokine signaling pathway

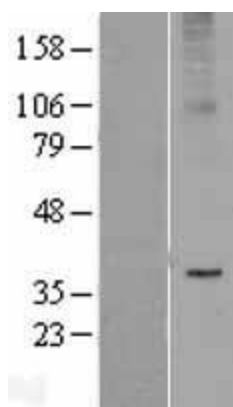
MW: 43.9 kDa

Gene Summary: The adiponectin receptors, ADIPOR1 (MIM 607945) and ADIPOR2, serve as receptors for globular and full-length adiponectin (MIM 605441) and mediate increased AMPK (see MIM 602739) and PPAR-alpha (PPARA; MIM 170998) ligand activities, as well as fatty acid oxidation and glucose uptake by adiponectin (Yamauchi et al., 2003 [PubMed 12802337]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC208693



Western blot validation of overexpression lysate (Cat# [LY403002]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208693 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).