

## Product datasheet for **RG208693**

### 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:	TurboGFP
Symbol:	Adiponectin Receptor 2
Synonyms:	ACDCR2; PAQR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208693 representing NM_024551 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACGAGCCAACAGAAAACCGATTGGGGTGCAGCAGGACTCCAGAGCCAGATAAAGGCTCAGAAAAG  
GGCACCAACTGGATGGTACACGAAGAGGTGATAATGACAGCCACCAAGGAGATTTGGAGCCATTTTAGA  
GGCATCTGTTCTATCTTCCCATCAAAAAAGCTCTGAGGAACATGAATACAGTGATGAAGCTCCTCAG  
GAAGATGAGGGCTTTATGGGCATGTCCCCTCTTTACAAGCCCATCATGCTATGGAAAAATGGAAGAAT  
TTGTTTGAAGGTATGGGAAGGTCGGTGGCGAGTGATCCCTCATGATGTACTACCAGACTGGCTCAAGGA  
TAATGACTTCCTCTTGCATGGACACCGGCTCCTATGCCTCTTTCCGGGCTGTTTTAAGAGCATTTTC  
AGAATACACAGAAAACAGGCAACATTTGGACACATCTCTTAGGTTGTGTATTCTTCCTGTGCTGGGA  
TCTTTTATATGTTTCGCCAAATATCTCCTTTGTGGCCCTCTGCAAGAGAAGGTGGTCTTTGGATTATT  
TTTCTTAGGAGCCATTCTCTGCCTTTCTTTTCATGGCTCTTCCACACAGTCTACTGCCACTCAGAGGGG  
GTCTCTCGGCTCTTCTAACTGGATTACTCTGGTATTGCTCTTCTGATTATGGGAAGTTTTGTTCCTT  
GGCTTTATTATTCTTTCTACTGTAATCCACAACCTTGCTTCATCTACTTGATTGCATCTGTGTGCTGGG  
CATTGCAGCCATTATAGTCTCCCAGTGGGACATGTTGCCACCCCTCAGTATCGGGGAGTAAGAGCAGGA  
GTGTTTTTGGCCCTAGGCTGAGTGGAAATCATTCTACCTGACTATGTCATCTCGGAGGGGTTCTTA  
AGGCCGCCACCATAGGGCAGATAGGCTGGTTGATGCTGATGGCCAGCCTCTACATCAGAGGACTGCCTT  
GTATGCTGCCCGATCCCCGAACGCTTTTTCCCTGGCAAATGTGACATCTGGTTTCACTCTCATCAGCTG  
TTTCATATCTTTGTGGTTGCTGGAGCTTTTGTCACTTCCATGGTGTCTCAAACCTCCAGGAGTTTCGTT  
TCATGATCGGGGGGCTGCAGTGAAGAGGATGCACTG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208693 representing NM\_024551  
 Red=Cloning site Green=Tags(s)

MNEPTENRLGCSRTPEPDIRLRKKGHQLDGTRRGDNDSDHQDLEPILEASVLSHHKKSSEEHEYSDEAPQ  
 EDEGFMGMSPLLQAHAMEKMEEFVCKVWEGRWVIPHDLVDPWLKDNDFLLHGHRRPMPSPFRACFKSIF  
 RIHTETGNIWTHLLGCVFFLCLGIFYMFRPNISFVAPLQEKVVFLGFLGAILCLFSWLFHTVYCHSEG  
 VSRLFSLDYSGIALLIMGSFVPWLYYSFYCNQPFCFIYLVICVLGIAAIIVSQWDMFATPQYRGVVRAG  
 VFLGLGLSGIIPTLHYVISEGFLKAATIGQIGWMLMASLYITGAALYAARIPERFFPGKCDIWFHSHQL  
 FHIFVVAGAFVHFHGVSNLQEFRFMIGGCSEEDAL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

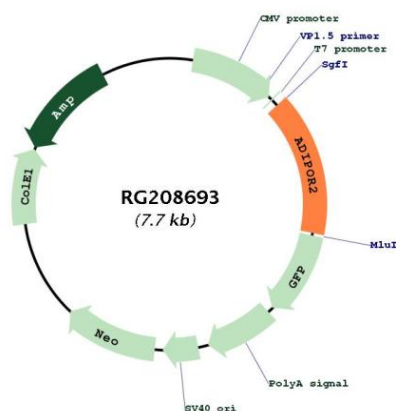
**Domains:** UPF0073

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Adipocytokine signaling pathway

**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 RG208693