

## Product datasheet for MR206029

### Adipor2 (NM\_197985) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adipor2 (NM_197985) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adipor2
Synonyms:	1110001114Rik; ADCR2; AI115388; AW554121; D6Ucla1e; Paqr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206029 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACGAGCCAGCCAAACACCGATTGGGGTGCACCAGGACTCCAGAGCCAGATACGGCTCAGAAAAG  
GGCACCAACTTGATGATACAAGGGGAAGTAATAATGACAACACCAAGGAGATTTGGAGCCAGCTTAGA  
GACACCTGTTTGTCTTCTATTATGAAAATAGCCCGGAGGAGCCGAGTGTGATGACAATCCAG  
GAAGATGAAGGGTTTATGGGCATGTCCCGCTCCTACAGGCCATCATGCTATGGAACGAATGGAAGAGT  
TTGTTTGAAGGTGTGGGAAGGCCGATGGCGAGTATCCCTCACGATGTGCTACCGGATTGGCTTAAGGA  
TAATGACTTCCTTCTCCATGGACACCGGCTCCTATGCCTTCCTTCGGGCTGTTTTAAGAGCATT  
AGAATACACACAGAGACGGCAACATTTGGACACATCTCCTAGGTTGTGTATTCTTCTGTGCTGGGA  
TCTTTTATATGTTTCGCCAAATATATCTTTTGTGGCCCTCTGCAAGAGAAAGTGGTCTTTGGCTTGT  
CTTCTGGGAGCCATTCTCTGCCTTTCCTTTTCATGGCTCTTCCACCGGTGACTGCCACTCAGAAGGG  
GTCTCCGACTCTTCTAAATTGGATTACTCTGGTATTGCTCTTCTGATCATGGGAAGTTTTGTTCTT  
GGCTTTATTATTCTTCTACTGTAACCCACAACCTTGTTCATCTACCTGATTGTCATCTGTGTGCTGG  
CATTGCAGCCATTATCGTCTCTCAGTGGGACATGTTGCCACCCCTCAGTATCGGGGGTCCAGAGCAGGA  
GTGTTTCGTGGCTTAGGCCTGAGTGGAAATCATCCCTACCTGATTGTCATCTCAGAAGGGTTCCTGA  
AGGCTGCCACCATAGGGCAGATAGGCTGGCTAATGCTTATGGCTAGCCTCTATATACCGGAGCTGCCT  
CTATGCGGCCGATCCCTGAGCGCTTCTTTCCTGGCAAATGTGACATCTGGTTTCACTCTCATCAGCTC  
TTCCACATCTTTGTGGTTGCTGGTGCCTTTGTTCACTTCCACGGAGTCTCAAACCTGCAGGAATTCGTT  
TCATGATTGGCGGGGCTGCACTGAAGAGGATGCACTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206029 protein sequence  
Red=Cloning site Green=Tags(s)

MNEPAKHRLGCTRPEPDIRLRKGHQLDDTRGSNNDNYQGDLPSLETPVCSSYYENSPEEPECHDDNSQ  
 EDEGFMGMSPLLQAHHAMERMEEFVCKVWEGRWVIPHDLVLPDWLKDNDLHGHRRPMPSPFRACFKSIF  
 RIHTETGNIWTHLLGCVFFLCLGIFYMFRPNISFVAPLQEKVVFLGFLGAILCLSFWSLFWHTVYCHSEG  
 VSRLFSKLDYSGIALLIMGSFVPLWYYSFYCNQPFCFIYLIVICVLGIAAIIIVSQWDMFATPQYRGVVRAG  
 VFVGLGLSGIIPTLHYVISEGFLKAATIGQIGWMLMASLYITGAALYAARIPERFFPGKCDIWFHSHQL  
 FHIFVVAGAFVHFHGVSNLQEFRFMIGGCTEEDAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_197985

**ORF Size:** 1161 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\\_197985.4](#)

**RefSeq Size:** 3963 bp

**RefSeq ORF:** 1161 bp

**Locus ID:** 68465

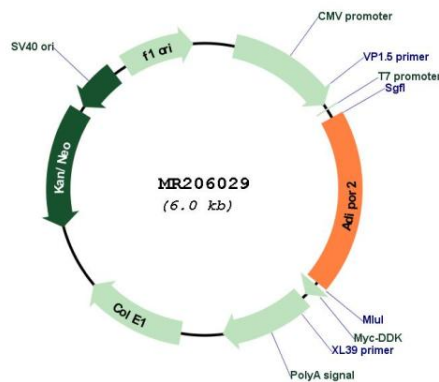
**UniProt ID:** [Q8BQS5](#)

**Cytogenetics:** 6 56.78 cM

**MW:** 44 kDa

**Gene Summary:** Receptor for ADIPOQ, an essential hormone secreted by adipocytes that regulates glucose and lipid metabolism (PubMed:17327425, PubMed:17068142, PubMed:17268472, PubMed:24742672). Required for normal body fat and glucose homeostasis (PubMed:17327425, PubMed:17068142, PubMed:17268472, PubMed:24742672). ADIPOQ-binding activates a signaling cascade that leads to increased PPARA activity, and ultimately to increased fatty acid oxidation and glucose uptake (PubMed:12802337, PubMed:17268472, PubMed:24742672). Has intermediate affinity for globular and full-length adiponectin (PubMed:12802337). Required for normal revascularization after chronic ischemia caused by severing of blood vessels (PubMed:24742672).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206029