

## Product datasheet for MR205831

### Adipor1 (NM\_028320) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adipor1 (NM_028320) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adipor1
Synonyms:	2810031L11Rik; ACD1R1; CGI-45; Paqr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205831 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTCCACAAAGGCTCTGCCGGGCAAGGCAATGGGGCTCCTTCTGGTAACAGAGAAGCTGACA  
CAGTGGAGCTGGCTGAGCTGGGGCCCTGCTGGAGGAGAAGGGCAAGCGGGCAGCCAGCCAGCCAA  
GGCTGAGGAAGATCAAGCATGCCCGGTGCCTCAGGAAGAGGAGGAGGTGCGGGTCTGACGCTTCT  
CTGCAAGCCACCATGCCATGGAGAAGATGGAGGAGTTCGTGTATAAGGTCTGGGAGGACGTTGGAGAG  
TCATCCCGTATGATGTGCTTCTGACTGGCTGAAAGACAACGACTACCTGCTACATGGCCACAGACCACC  
TATGCCCTCCTTTCGGGCTTGTTCAGAGCATCTCCGATCCACAGAGACTGGCAACATCTGGACA  
CATCTGCTTGGTTTTGTGCTATTTCTTTCTGGGAATCTTGACGATGCTGAGACCAAATATGACTTCA  
TGGCTCCCTGCAGGAGAAGGTGGTCTTCGGGATGTTCTTCTGGGCGGGTCTGCTGCCTCAGTTTCTC  
CTGGCTCTCCACTGTCTACTGTCAATCAGAGAAGGTCTCTCGGACTTTTTCCAACTGGACTATTCA  
GGGATTGCTCTACTGATTATGGGAGCTTCGTTCCCTGGCTCTATTACTCCTTCTACTGCTCCACAGC  
CGCGGCTCATCTACCTCTCCATCGTCTGTGTCTGGCATCTCTGCCATCATTGTGGCACAGTGGGACCG  
GTTTGGCACTCCCAAGCACCGGCAGACAAGAGCAGGAGTGTTCCTGGGACTTGGCTTGGTGGTGTGTA  
CCCACCATGCACCTTACTATCGCTGAGGGCTTTGTCAAGGCCACCACGGTGGGCGAGTGGGCTGGTTC  
TCCTCATGGCTGTGATGTACATCACCGGCGCCGCTGTATGCTGCTCGATTCTGAGCGCTTCTTCCC  
TGGAAAATTTGACATCTGGTTCAGTCTCATCAGATTTTCCACGCTCTGGTGGTGGCAGCAGCTTTCGTC  
CACTTCTATGGTGTGCCAACCTTCAGGAATCCGTTATGGCCTAGAAGGTGGCTGTACCAGCACTCCC  
TTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205831 protein sequence  
 Red=Cloning site Green=Tags(s)

MSSHKGSAGAQQNGAPSGNREADTVELAELGPLLEEKGKRAASSPAKAEEDQACVPVQEEEEVRLTLP  
 LQAHHAMEKMEEFVYKVEGRWRVIPYDVLDPWLKNDYLLHGRPPMPSFRACFKSIFRIHTETGNIWT  
 HLLGFVLFLLGILTMLRPNMYFMAPLQEKVVFGMFFLGAVLCLFSWLFHTVYCHSEKVSRTFSKLDYS  
 GIALLMGSPVWLYYSFYCSPQPRLIYLSIVCVLGISAIIVAQWDRFATPKHRQTRAGVFLGLSGVV  
 PTMHFTIAEGFVKATTVGQMGWFFLMVMYITGAGLYAARIPERFFPGKFDIWFQSHQIFHVLVAAAFF  
 HFYGVSNLQEFRYGLEGGCTDSSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_028320

**ORF Size:** 1128 bp

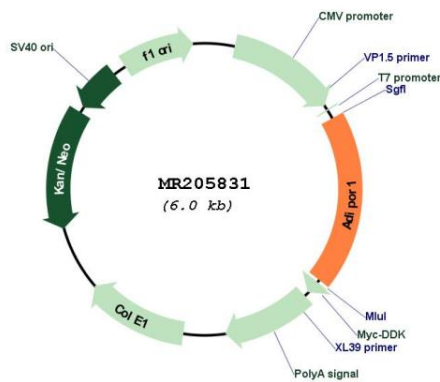
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_028320.4](#)
- RefSeq Size:** 2024 bp
- RefSeq ORF:** 1128 bp
- Locus ID:** 72674
- UniProt ID:** [Q91VH1](#)
- Cytogenetics:** 1 E4
- MW:** 42.4 kDa
- Gene Summary:** This gene encodes a receptor for the fat-derived hormone adiponectin. Binding of adiponectin to the encoded protein results in activation of an AMP-activated kinase signaling pathway which affects levels of fatty acid oxidation and insulin sensitivity. Homozygous knockout mice for this gene exhibit elevated plasma glucose and insulin levels as well as impaired glucose tolerance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

**Product images:**



Circular map for MR205831