

## Product datasheet for **MG206029**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adipor2 (NM_197985) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adipor2
Synonyms:	1110001114Rik; ADCR2; AI115388; AW554121; D6Ucla1e; Paqr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206029 representing NM_197985 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACGAGCCAGCCAAACACCGATTGGGGTGCACCAGGACTCCAGAGCCAGATATACGGCTCAGAAAAG  
GGCACCAACTTGATGATACAAGGGGAAGTAATAATGACAACACCAAGGAGATTTGGAGCCAGCTTAGA  
GACACCTGTTTGTCTTCTATTATGAAAATAGCCCGGAGGAGCCCGAGTGTGATGACAATCCAG  
GAAGATGAAGGGTTTATGGGCATGTCCCGCTCCTACAGGCCATCATGCTATGGAACGAATGGAAGAGT  
TTGTTTGAAGGTGTGGGAAGCCGATGGCGAGTATCCCTCACGATGTGCTACCGGATTGGCTTAAGGA  
TAATGACTTCCTTCTCCATGGACACCGGCTCCTATGCCTTCCTTCGGGCTGTTTTAAGAGCATT  
AGAATACACACAGAGACGGCAACATTTGGACACATCTCCTAGGTTGTGTATTCTTCTGTGCTGGGA  
TCTTTTATATGTTTCGCCAAATATATCTTTTGTGGCCCTCTGCAAGAGAAAGTGGTCTTTGGCTTGT  
CTTCTGGGAGCCATTCTCTGCCTTTCCTTTTCATGGCTCTTCCACCGGTGACTGCCACTCAGAAGGG  
GTCTCCGACTCTTCTCTAAATTGGATTACTCTGGTATTGCTCTTCTGATCATGGGAAGTTTTGTCCTT  
GGCTTTATTATTCTTCTACTGTAACCCACAACCTTGCTTCATCTACCTGATTGTCATCTGTGTGCTGG  
CATTGCAGCCATTATCGTCTCTCAGTGGGACATGTTGCCACCCCTCAGTATCGGGGGTCCAGAGCAGGA  
GTGTTTCGTGGGCTTAGGCCTGAGTGGAAATCATCCCTACCTGATTATGTCATCTCAGAAGGGTTCCTGA  
AGGCTGCCACCATAGGGCAGATAGGCTGGCTAATGCTTATGGCTAGCCTCTATATACCCGGAGCTGCCT  
CTATGCGGCCGATCCCTGAGCGCTTCTTTCCTGGCAAATGTGACATCTGGTTTCACTCTCATCAGCTC  
TTCCACATCTTTGTGGTTGCTGGTGCCTTTGTTCACTTCCACGGAGTCTCAAACCTGCAGGAATTCGTT  
TCATGATTGGCGGGGCTGCACTGAAGAGGATGCACTG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206029 representing NM\_197985  
 Red=Cloning site Green=Tags(s)

MNEPAKHRLGCTRTPEDIRLRKKGHQLDDTRGSNNDNYQGDLPSLETPVCSSYIENSPEEPECHDDNSQ  
 EDEFGFMGMSPLLQAHHAMERMEEFVCKVWEGRWVIPHDLVDPWLKDNDFLLHGHRRPMPSPFRACFKSIF  
 RIHTETGNIWTHLLGCVFFLCLGIFYMFRPNISFVAPLQEKVVFLGFLGAILCLFSWLFHTVYCHSEG  
 VSRLFSKLDYSGIALLIMGSFVPLWYYSFYCNQPFCFIYLIVICVLGIAAIIVSQWDMFATPQYRGVVRAG  
 VFVGLGLSGIIPTLHYVISEGFLKAATIGQIGWLMMLMASLYITGAALYAARIPERFFPGKCDIWFHSHQL  
 FHIFVVAGAFVHFHGVSNLQEFRFMIGGCTEEDAL

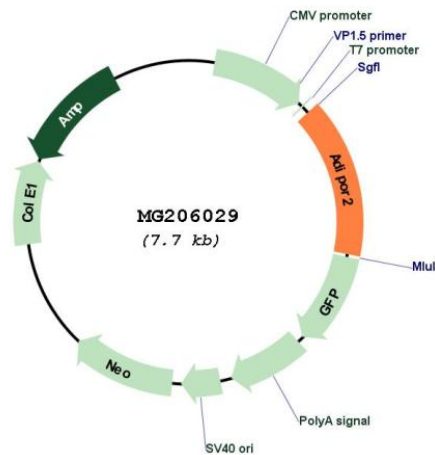
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_197985

<b>ORF Size:</b>	1158 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_197985.4</a>
<b>RefSeq Size:</b>	3963 bp
<b>RefSeq ORF:</b>	1161 bp
<b>Locus ID:</b>	68465
<b>UniProt ID:</b>	<a href="#">Q8BQ55</a>
<b>Cytogenetics:</b>	6 56.78 cM
<b>Gene Summary:</b>	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]