OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG227517

Adipoq (NM_009605) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adipoq (NM_009605) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adipoq
Synonyms:	30kDa; Acdc; Acrp30; Ad; adipo; apM1; APN; GBP28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG227517 representing NM_009605
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTACTGTTGCAAGCTCTCCTGTTCCTCTTAATCCTGCCCAGTCATGCCGAAGATGACGTTACTACAA
CTGAAGAGCTAGCTCCTGCTTTGGTCCCTCCACCCAAGGGAACTTGTGCAGGTTGGATGGCAGGCATCCC
AGGACATCCTGGCCACAATGGCACACCAGGCCGTGATGGCAGAGATGGCACTCCTGGAGAGAAGGGAGAG
AAAGGAGATGCAGGTCTTCTTGGTCCTAAGGGTGAGACAGGAGATGTTGGAATGACAGGAGCTGAAGGGC
CACGGGGCTTCCCCGGAACCCCTGGCAGGAAAGGAGAGCCTGGAGAAGCCGCTTATGTGTATCGCTCAGC
GTTCAGTGTGGGGCTGGAGACCCGCGTCACTGTTCCCAATGTACCCATTCGCTTTACTAAGATCTTCTAC
AACCAACAGAATCATTATGACGGCAGCACTGGCAAGTTCTACTGCAACATTCCGGGACTCTACTACTTCT
CTTACCACATCACGGTGTACATGAAAGATGTGAAGGTGAGCCTCTTCAAGAAGGACAAGGCCGTTCTCTT
CACCTACGACCAGTATCAGGAAAAGAATGTGGACCAGGCCTCTGGCTCTGTGCTCCTCCATCTGGAGGTG
GGAGACCAAGTCTGGCTCCAGGTGTATGGGGATGGGGACCACAATGGACTCTATGCAGATAACGTCAACG
ACTCTACATTTACTGGCTTTCTTCTCTACCATGATACCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

>MG227517 representing NM_009605
Red=Cloning site Green=Tags(s)

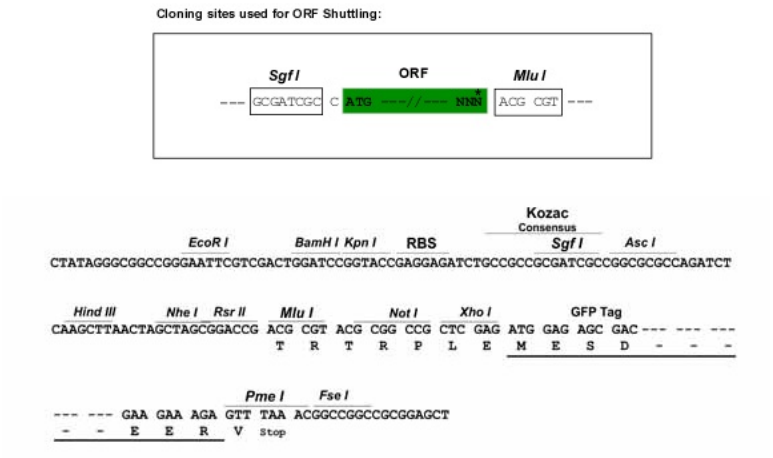
MLLLQALLFLLILPSHAEDDVTTTEELAPALVPPPKGTCAGWMAGIPGHPGHNGTPGRDGRDGTPGEKGE
KGDAGLLGPKGETGDVGMTGAEGPRGFPGTPGRKGEPGEAAYVYRSAFSVGLETRVTVPNVPIRFTKIFY
NQQNHYDGSTGKFYCNIPGLYYFSYHITVYMKDVKVSLFKKDKAVLFTYDQYQEKNVDQASGSVLLHLEV
GDQVWLQVYGDGDHNGLYADNVNDSTFTGFLLYHDTN

TRTRPLE – GFP Tag – V

Chromatograms: https://cdn.origene.com/chromatograms/ja2308_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009605

ORF Size: 741 bp

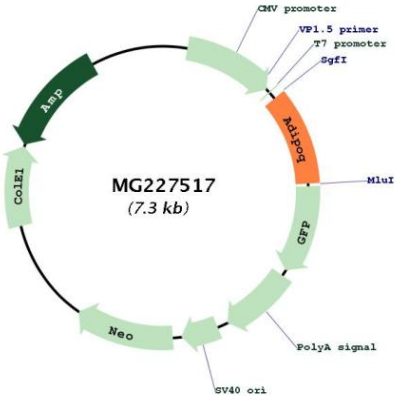
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_009605.5
RefSeq Size:	1233 bp
RefSeq ORF:	744 bp
Locus ID:	11450
UniProt ID:	Q60994
Cytogenetics:	16 13.96 cM
Gene Summary:	Important adipokine involved in the control of fat metabolism and insulin sensitivity, with direct anti-diabetic, anti-atherogenic and anti-inflammatory activities. Stimulates AMPK phosphorylation and activation in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion. Antagonizes TNF-alpha by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. Inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. May play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex, LMW, MMW or HMW.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG227517