

Product datasheet for **MR217800**

Angptl8 (NM_001080940) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Angptl8 (NM_001080940) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Angptl8
Synonyms: EG624219; Gm6484; Rifl
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR217800 representing NM_001080940
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGTGCTTCTCTGCTCCTGTGGACCTTAGCATCAGCAGTGGACCCGCTCCAGTGGCCCTC
 TGGGTGGTCCAGAGCCAGCTCAATATGAAGAGCTGACCCTGCTCTTTCACGGGGCCCTGCAGTAGGCCA
 GGCCCTCAATGGCGTGTACAGAGCCACAGAGGCTCGCCTGACAGAAGCTGGGCACAGCCTGGGCCTCTAT
 GACAGAGCACTGGAATTCCTGGGACAGAAGTCAGGCAGGGCCAGGATGCCACACAGGAGCTTCGCCCA
 GCCTGTGGAGATTCAGGTGGAAGAGGACGCTTTACACCTTCGAGCTGAAGCCACAGCCGATCACTGGG
 GGAAGTGGCCCGGCCACGAGGCTCTGCGGGACTGTACGGAGACTACAAGTGCAGCTGAGAGGCCGC
 TGGCTCGGTCAAGCCACCAAGAATTTGAGACCTTAAAGGCTCGAGCTGATAAGCAGAGCCACCTTTAT
 GGGCTCTCACTGGCCACGTGCAGCGACAGCAGCGGGAGATGGCAGAGCAGCAACAGTGGCTGCGACAGAT
 CCAGCAGAGACTCCACACAGCAGCCCTCCAGCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217800 representing NM_001080940
 Red=Cloning site Green=Tags(s)

MAVLALCLLWTLASAVRPAPVAPLGGPEPAQYEELTLFHGALQLGQALNGVYRATEARL TEAGHSLGLY
 DRALEFLGTEVRQGDATQELRTSLSEIQVEEDALHLRAEATARSLGEVARAQALRDTVRRLLQVQLRGA
 WLGOAHQEFETLKARADKQSHLLWAL TGHVQRQREMAEQQWLRQIQRLHTAALPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/ja1580_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080940

ORF Size: 594 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.

RefSeq: [NM_001080940.1](#), [NP_001074409.1](#)

RefSeq Size: 887 bp

RefSeq ORF: 597 bp

Locus ID: 624219

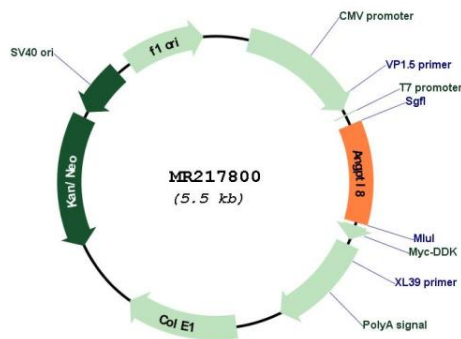
UniProt ID: [Q8R1L8](#)

Cytogenetics: 9 A3

MW: 22.5 kDa

Gene Summary: Hormone that acts as a blood lipid regulator by regulating serum triglyceride levels (PubMed:22569073, PubMed:22809513, PubMed:23150577, PubMed:24043787). May be involved in the metabolic transition between fasting and refeeding: required to direct fatty acids to adipose tissue for storage in the fed state (PubMed:24043787). According to a report, may act by promoting ANGPTL3 cleavage (PubMed:23150577). According to another study, not required for cleavage of ANGPTL3 (PubMed:24043787).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217800