

Product datasheet for MR206437

Angptl4 (NM_020581) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Angptl4 (NM_020581) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Angptl4
Synonyms: Arp4; Bk89; Fiaf; Hfarp; Ng27; Pgar; Pgarg; Pp1158
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR206437 representing NM_020581
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCTGCGCTCCGACAGCAGGCGCTGCCCTGGTGCTATGCGCGGCTACTGCGGGGCTTTTGAGCGCGC
 AAGGGCGCCCTGCACAGCCAGAGCCACCGCGCTTTCATCCTGGGACGAGATGAACCTGCTGGCTCACGG
 GCTGCTACAGCTCGGCCATGGGCTGCGGAACACGTGGAGCGCACCCGTGGGCAGCTGGGCGCGCTGGAG
 CGCCGATGGCTGCTGTGGTAACGCTTGTGAGGGCCCAAGGGAAAAGATGCACCCTTCAAAGACTCCG
 AGGATAGAGTCCCTGAAGCCAGACTCCTGAGACTCTGCAGAGTTTGCAGACTCAGCTCAAGGCTCAAAA
 CAGCAAGATCCAGCAATTGTTCCAGAAGGTGGCCACGACAGAGATACCTATCAAAGCAGAATCTGAGA
 ATACAGAATCTTCAGAGCCAGATAGACCTTTGGCCCCACGCACCTAGACAATGGAGTAGACAAGACTT
 CGAGGGGAAAGAGGCTTCCCAAGATGACCCAGCTCATTGGCTTACTCCCAACGCCACCCACTTACACAG
 GCCGCCCGGGACTGCCAGGAATCTTCCAAGAAGGGGAGAGGCACAGTGGACTTTTCCAGATCCAGCCT
 CTGGGGTCTCCACATTTTTGGTCAACTGTGAGATGACTTCAGATGGAGGCTGGACAGTGATTGAGAGAC
 GCCTGAACGGCTCTGTGGACTTCAACAGTCCTGGGAAGCCTACAAGGATGGCTTCGGAGATCCCAAGG
 CGAGTTCTGGCTGGCCCTGAAAAAGATGCACAGCATCACAGGAAACCGAGGAAGCCAATTGGCTGTGCAG
 CTCCAGGACTGGGATGGCAATGCCAAATTGCTCCAATTTCCATCCATTTGGGGGTGAGGACACAGCCT
 ACAGCCTGCAGCTCACTGAGCCACGGCCAATGAGCTGGGTGCCACCAATGTTTCCCAATGGCCTTTC
 CCTGCCCTTCTACTTGGGACCAAGACCATGACCTCCGTGGGGACCTTAACTGTGCCAAGAGCCTCTCT
 GGTGGCTGGTGGTTTGGTACCTGTAGCCATTCCAATCTCAATGGACAATACTTCCACTCTATCCCACGGC
 AACGGCAGGAGCGTAAAAAGGTATCTTCTGAAAAACATGGAAGGGCCGCTACTATCCTCTGCAGGCTAC
 CACCCTGCTGATCCAGCCATGGAGGCTACAGCAGCCTCT

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206437 representing NM_020581
Red=Cloning site Green=Tags(s)

MRCAPTAGAALVLC AATAGLLSAQGRPAQPEPPRFASWDEMNL LAHGLLQLGHGLREHVERTRGQLGALE
 RRMAACGNACQGPKGKDAPFKDSEDRVPEGQTPETLQSLQTQLKAQNSKIQQLFQKVAQQRYLSKQNL R
 IQNLQSQIDLLAPTHLDNGVDKTSRGRKLPKMTQLIGLTPNATHLHRPPRDCQELFQEGERHSGLFQIQP
 LGSPFFLVNCEMTSDGGWTVIQRRNLNGSVDFNQSW EAYKDFGDPQGEFWLGLEKMH SITGNRGSQ LAVQ
 LQDWDGNAKLLQFPIHLGGEDTAYSLQLTEPTANELGATNVSPNGLSLPFSTWDQDHLRGLNCAKSL S
 GWWFVGTCSHSLNNGQYFHSIPRQRQERKKGIFWKTWKGRYYPLQATTLTIQPMEATAAS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_020581

ORF Size: 1230 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_020581.1](#), [NM_020581.2](#), [NP_065606.1](#)

RefSeq Size: 1858 bp

RefSeq ORF: 1233 bp

Locus ID: 57875

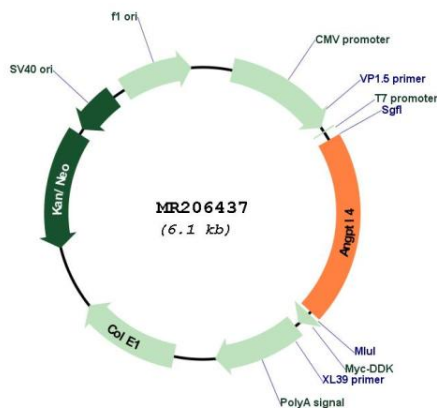
UniProt ID: [Q9Z1P8](#)

Cytogenetics: 17 B1

MW: 46 kDa

Gene Summary: Mediates inactivation of the lipoprotein lipase LPL, and thereby plays a role in the regulation of triglyceride clearance from the blood serum and in lipid metabolism (PubMed:15837923, PubMed:17609370, PubMed:29899519). May also play a role in regulating glucose homeostasis and insulin sensitivity (PubMed:15837923, PubMed:29899519). Inhibits proliferation, migration, and tubule formation of endothelial cells and reduces vascular leakage (PubMed:14583458, PubMed:17130448, PubMed:21832056). Upon heterologous expression, inhibits the adhesion of endothelial cell to the extracellular matrix (ECM), and inhibits the reorganization of the actin cytoskeleton, formation of actin stress fibers and focal adhesions in endothelial cells that have adhered to ANGPTL4-containing ECM (in vitro) (By similarity). Depending on context, may modulate tumor-related angiogenesis (Probable). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206437