

Product datasheet for **MG206437**

Angptl4 (NM_020581) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Angptl4 (NM_020581) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Angptl4
Synonyms: Arp4; Bk89; Fiaf; Hfarp; Ng27; Pgar; Pgarg; Pp1158
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206437 representing NM_020581
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCTGCGCTCCGACAGCAGGCGCTGCCCTGGTGCTATGCGCGGCTACTGCGGGGCTTTTGAGCGCGC
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CAGCAAGATCCAGCAATTGTTCCAGAAGGTGGCCACGACAGAGATACCTATCAAAGCAGAATCTGAGA
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GGTGGCTGGTGGTTTGGTACCTGTAGCCATTCCAATCTCAATGGACAATACTTCCACTCTATCCCACGGC
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CACCTGCTGATCCAGCCATGGAGGCTACAGCAGCCTCT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206437 representing NM_020581
 Red=Cloning site Green=Tags(s)

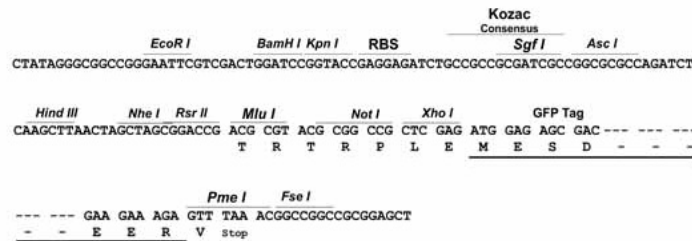
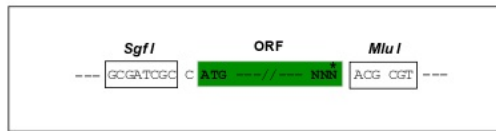
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IQNLQSQIDLLAP THLDNGVDKTSRGRKLPKMTQLIGLTPNATHLHRPPRDCQELFQEGERHSGLFQIQP
LGSPFFLVNCEMT SDGGWTVIQRRLNGSVDFNQSW EAYKDFGDPQGEFWLGLEKMSITGNRGSQLAVQ
LQDWDGNAKLLQFP IHLGGEDTAYSLQLTEPTANELGATNVSPNGLSLPFSTWDQDHLRGLNCAKSLS
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TRTRPLE - GFP Tag - V

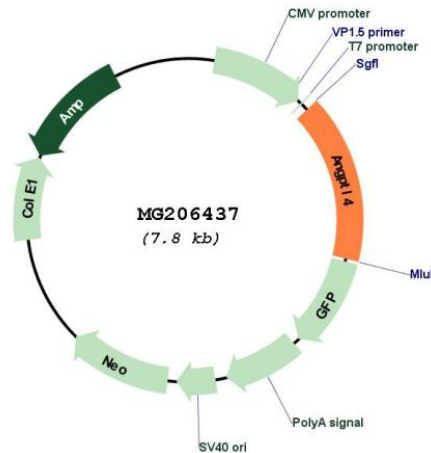
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<ol style="list-style-type: none">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 , NP_065606.1
RefSeq Size:	1858 bp
RefSeq ORF:	1233 bp
Locus ID:	57875
UniProt ID:	Q9Z1P8
Cytogenetics:	17 B1
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]