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Product datasheet for RG226319

Angiomotin (AMOT) (NM_001113490) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angiomotin (AMOT) (NM_001113490) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Angiomotin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG226319 representing NM_001113490
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAAATTCTGAAGAACAGCCAAGTGGAGGGACCACGGTATTGCAGCGTTTGCTACAAGAGCAGCTTC
GCTATGGCAATCCTAGTGAGAATCGCAGCCTGCTTGCCATACACCAGCAAGCCACAGGGAATGGCCCTCC
TTTCCCCAGTGGCAGTGGGAACCCGGGCCCTCAGAGTGATGTGTTGAGTCCCCAAGACCACCACCAACAG
CTTGTGGCTCATGCTGCTCGACAAGAACCCCAGGGGCAGGAAATCCAGTCAGAAAACCTCATCATGGAGA
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GTACTTTCGGGGCCAACAGCATGCCAGTGTTGGAGCTGCCTTCTATGTCACTGGAGTCACCAACCAGAAG
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AGTTAAGGCCCATCCACCTGTTACCAGTGCTCCCCTCTCCCCACCACAACCCAATGACCTCTACAAGAAT
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GTCTAGAGACTGCCAACAAGCAGCTTGCAGAGAAGGAATATGAGGGGTCAGAGGACACCAGAAAAACCAT

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CTCGCAGCTCTTTGCAAAAAATAAAGAAAGCCAGCGTGAGAAGGAGAAGCTGGAAGCGGAGCTGGCCACT
GCCCGTTCTACCAATGAGGACCAAAGACGACACATCGAAATCCGAGATCAGGCCCTGAGTAATGCCCAGG
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AAAACAGATGGGCCTGTGTTCCACTCCAATACTCTGGAAAGAAAAACTCCCATTCAGATCCTGGGACAAG
AGCCTGATGCAGAGATGGTGGAATATCTCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226319 representing NM_001113490
Red=Cloning site Green=Tags(s)

MRNSEEQPSGGTTVLQRLLQEQLRYGNPSENRSLLAIHQQATGNGPPFPSGSGNPGPQSDVLSPQDHHQQ
LVAHAARQEPQGQEIQSENLIMEKQLSPRMQNNEELPTYEEAKVQSQYFRGQQHASVGAAFYVTGVTNQK
MRTEGRPSVQRLNPGKMHQDEGLRDLKQGHVRSLSERLMQMSLATSGVKAHPPVTSAPLSPPQPNDLYKN
PTSSSEFYKAQGPLPNQHSLKGMEHRGPPPEYPFKGMPPQSVVCKPQEPGHFYSEHRLNQPGRTEGQLMR
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APVAVAAAAAPAAAAAPSPATAAATAAAVSPAAAGQIPAAASVASAAAVAPSAAAAAAVQVAPAAPAPVP
APALVPVPAPAAAQASAPAQTQAPTSAPAVAPTPAPTPTPAVAQAEVPASPATGPGPHRLSIPSLTCNPD
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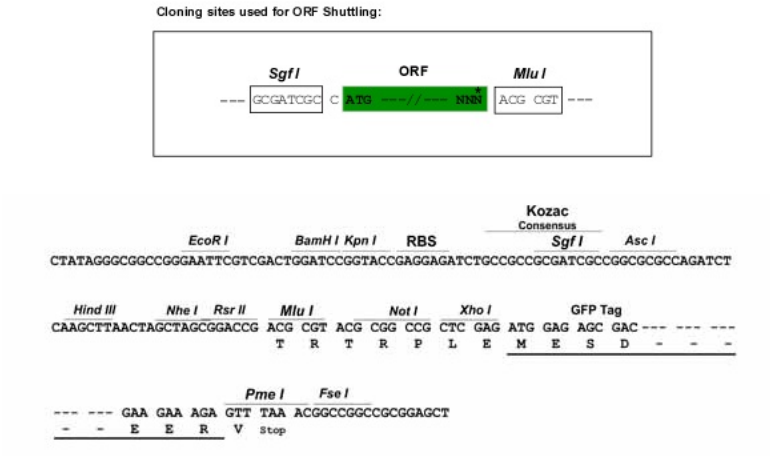
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001113490

ORF Size: 3252 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_001113490.1, NP_001106962.1

RefSeq Size: 6945 bp

RefSeq ORF: 3255 bp

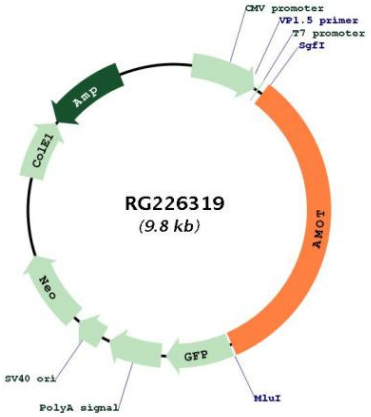
Locus ID: 154796

UniProt ID: Q4VCS5

Cytogenetics: Xq23

Gene Summary: This gene belongs to the motin family of angiostatin binding proteins characterized by conserved coiled-coil domains and C-terminal PDZ binding motifs. The encoded protein is expressed predominantly in endothelial cells of capillaries as well as larger vessels of the placenta where it may mediate the inhibitory effect of angiostatin on tube formation and the migration of endothelial cells toward growth factors during the formation of new blood vessels. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG226319