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Product datasheet for RG239759

Angiomotin like 1 (AMOTL1) (NM_001301007) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Angiomotin like 1 (AMOTL1) (NM_001301007) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMOTL1
Synonyms:	JEAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG239759 representing NM_001301007.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGAGGGCAAAGTTGCGCCGGGGAACTTGTGAGCCTGCGGTGAAAGTTGAAGATCCTCTTTGTAAC
TTCCACTCCCCAAACTTCCTGAGGATCTCAGAGGTGGAAATGAGAGGTTCCGAGGATGCGGCAGCTGGA
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CCTGGCCATGGGAAGTCGCCTGACCACAGAGGCCGGGTCAGCAGCTTGCTGCACAAGCCCGAGTTCCCT
GATGGAGAGATGATGGAAGTCCTCATC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG239759
Blue=ORF Red=Cloning site Green=Tag(s)

MWRAKLRRGTCEPAVKVEDPLCNFHSPNFLRISEVEMRGSEDAAAGTVLQRLIQEQLRYGTPTENMNLL
AIQHQATGSAGPAHPTNNFSSTENLTQEDPQMVYQSARQEPQGQEHQVDNTVMEKQVRSTQPQQNNEEL
PTYEEAKAQSQFFRGQQQQQQQQGAVGHGYYMAGGTSQKSRTEGRPTVNRANSGQAHKDEALKELKQGH
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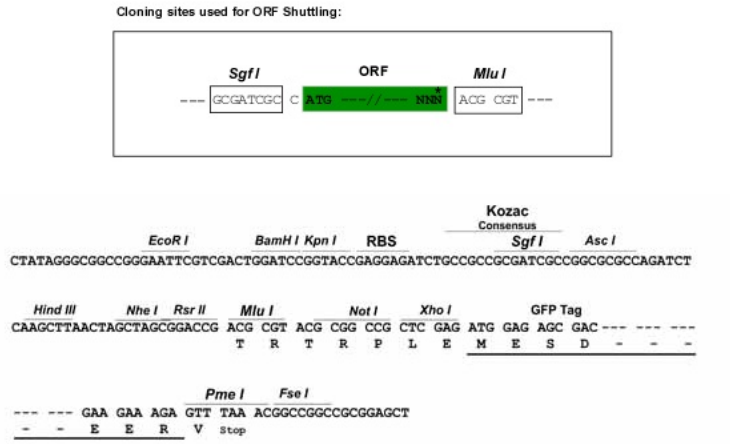
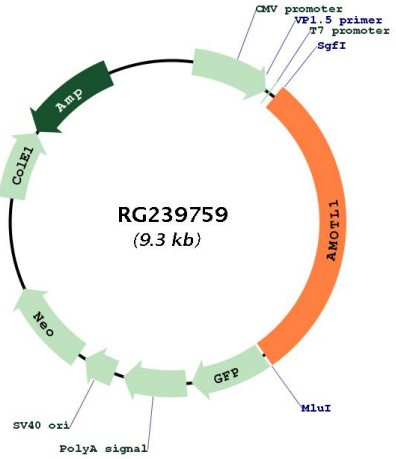
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001301007
ORF Size:	2718 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).
RefSeq:	NM_001301007.2
RefSeq Size:	8849 bp
RefSeq ORF:	2721 bp
Locus ID:	154810
UniProt ID:	Q8IY63
Cytogenetics:	11q21
Protein Pathways:	Tight junction
MW:	101.6 kDa

Gene Summary: The protein encoded by this gene is a peripheral membrane protein that is a component of tight junctions or TJs. TJs form an apical junctional structure and act to control paracellular permeability and maintain cell polarity. This protein is related to angiomotin, an angiostatin binding protein that regulates endothelial cell migration and capillary formation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]