

## Product datasheet for **RC207693**

### Angiomotin like 1 (AMOTL1) (NM\_130847) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Angiomotin like 1 (AMOTL1) (NM_130847) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Angiomotin like 1
Synonyms:	JEAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC207693 representing NM\_130847  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGGAGGGCAAAGTTGCGCCGGGAACCTGTGAGCCTGCGGTGAAAGGGTCCCCTTCTGCTTGTATA  
 GCCCAGTAGTCCGTCCAGTTCTAGAAGACTCCACCTACTTTCCCCAGACTTTCAGCTCTATTCTGG  
 GAGGCATGAAACATCTGCTTTGACGGTGGAGGCAACCAGTAGCATCAGGGAAAAAGTTGTTGAAGATCCT  
 CTTTGTAACTTCCACTCCCCAACTTCTGAGGATCTCAGAGGTGAAATGAGAGTTCCGAGGATGCGG  
 CAGCTGGAACAGTATTGCAGCGGTGATCCAGGAACAACCTGCGGTATGGCACCCCAACCGAGAACATGAA  
 CTTGCTGGCCATTAGCACCAGGCCACAGGAGTGCAGGACCAGCCATCTACAAACAACCTTTCTTCC  
 ACGGAAAACCTCACTCAAGAAGACCCACAAATGGTCTACCAGTCAGCACGCCAAGAACCAGGGTCAAG  
 AACACCAGGTGGACAATACGGTGTGGAGAAACAGGTCCGGTCCACGCAGCTCAGCAGAACAACGAGGA  
 ACTGCCCACTTACGAGGAGGCCAAAGCACAGTCCAGTCTTTCAGGGGGCAGCAGCAGCAACAGCAG  
 CAGGGGGCGGTGGCCATGGTTACTACATGGCAGGGGGCACCAAGTCCGAACTGAGGGGAGGC  
 CCACTGTGAACCGTGCACACAGTGGACAGGCGCATAAAGACGAGGCGCTGAAGGAACTGAAGCAGGGCCA  
 CGTCCGCTCGCTCAGCGAGAGAATCATGCAGCTGTCCCTGGAGAGGAATGGGGCCAAACACCTTCCC  
 GGCTCGGGGAATGGAAAGGGCTTCAAAGTAGGAGGGGGCCCTCCCCTGCCAGCCTGCAGGTAAGTGC  
 TGGACCTCGGGTCTCCACCTGAGTACCCTTCAAGACCAAGCAAATGATGTCCCAGTCAGCAAAGC  
 CCAGGAGCAGGACTTTTTATGGTGACCAGCACCCCGGGATGCTCCACGAGATGGTCAAGCCCTACCCT  
 GCTCCTCAGCCTGTGAGAACAGATGTGGCCGTCTGCGGTACCAGCCACCCCTGAGTATGGGGTAACGA  
 GCCGCCATGCCAACTTCGTTCCCATCAACCATGCAGCAGCACAGCCCATGTCTCCAGAGCTTCT  
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 CCGCTGCCGCTCCCCAGCCAGCAGCTTGGTCCAGATGCCTTTGCGATTGTGGAGCGAGCCAGCAAA  
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 CAAGCTCCACAAGTTTAAAAAGAACTTCAGAGAAATTCGGAAGCCTATGAAAGTCTGGTCAAGTCTACC  
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 TCAACAGAGACCTCCGAGATCGACTAGAGACTGCTAACAGGCAACTATCCAGCAGGGAATACGAAGGCA  
 TGAAGACAAAGCTGCAGAGGGCATTATGCTTCCAGAACAAAGAATTCTGAAGAAAAGGAGAAATTA  
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 GAAAGTTGAGAAGCTGCAGCAGGCCCTGACCCAGCTGCAGTCTGCATGTGAGAAGCGAGAACAGATGGAG  
 CGGAGACTGCGGACTTGGCTGGAGAGAGAGCTGGATGCACTGAGAACCAGCAGAAAACATGGAAATGGCC  
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 GCCATGAATGCCGAGCCACTGCAGCAGCTGAGAGGGACACCACGATCATCAACCACTCACGGAATGGCA  
 GCTACGGAGAGAGCTCGCTGGAGGCCACATCTGGCAAGAGGAGGAGGAGGTGGTGCAGGCCAACAGAAG  
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 GGAAAAGAAGGAAGAGAAGACCTGGAAGGGGAGCATAGGATTGCTGCTGGGAAGGAGCACCATGAGCAT  
 GCCTCTGCCCCACTGCTGCCACCCACCCACCTCAGCACTGTCTCCATAGCCTCCACTACGGCAGCCA  
 GCAGTGCCACGCAAGACAGGCAGCAAGGACAGCAGCACAGACTGACAAGAGTGCCGAGCTCTTCTG  
 GCCCAGCATGGCTCCCTTCCAGCCGCGGCGGCTGAGCAGACCCCTGCTCACAGCCCGTCTGAAA  
 CACCCAGCGGCCAAAGGGACCGCAGAGAACTGGAGAACTCTCCTGGCCATGGGAAGTCCGCTGACCACA  
 GAGGCCGGTTCAGCAGCTTGTGCACAAGCCGAGTTCCTGATGGAGAGATGATGGAAGTCTCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC207693 representing NM\_130847  
 Red=Cloning site Green=Tags(s)

MWRAKLRRGTCEPAVKGSPSACYSPSSPVQVLEDSTYFSPDFQLYSGRHETSALTVEATSSIREKVVEDP  
 LCNFHSNPLRISEVEMRGESEDAAGTVLQRLIQEQLRYGTPTENMNLAIQHQTGSAGPAHPTNNFSS  
 TENLTQEDPQMYYQSARQEPQGGHEQVDNTVMEKQVVRSTQPQONNEELPTYEEAKAQSQFFRGGQQQQQQ  
 QGAVGHGYMAGGTSQKSRTEGRPTVNRANSQGAHKDEALKELKQGHVRSLSERIMQLSLERNGAKQHLP  
 GSGNGKGFVGGGPPAQPAQKVLDPGPPPEYPFKTKQMSPVSKTQEHGLFYGDQHPGMLHEMVKPYP  
 APQPVRTDVAVLRYPPEYGVTSRPCQLPFPSTMQQHSMPSSQTSSASGPLHVSLSLPLPLMALGAPQP  
 PPAASPSQQLGPDFAIVERAQQMVEILTEENRVLHQELQGYDNADKLHKFEKELQRISEAYESLVKST  
 TKRESLDKAMRNKLEGEIRRLHDFNRDLRDRLETANRQLSSREYEGHEDKAAEGHYASQNKEFLKEKEKL  
 EMELAAVRTASEDHRRHIEILDQALSNAQARVIKLEELREKQAYVEKVEKLQQALTQLQSACEKREQME  
 RRLRTWLERELDALRTQQKHNGQPANMPEYNAPALLELVREKEERILALEADMTKWEQKYLEESTIRHF  
 AMNAAATAAAERDTTIIINHSRNGSYGESSLEAHIWQEEEEVVQANRRCDMEYTIKNLHAKIIEKDAMIK  
 VLQQRSRKDAGKTDSSSLRPARSVPSIAAATGTHSRQTSLSLSSQLAEKKEEKTWKGISIGLLGKEHHEH  
 ASAPLLPPPPTSALSSIASTTAASSAHAKTGSKDSSTQTDKSAELFWPSMASLPSRGRSLTPAHSPLVK  
 HPAAKGTAEKLENSPGHGKSPDHRGRVSSLLHKPEFPDGMEMVELI

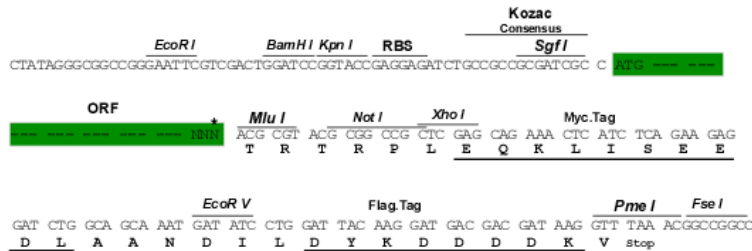
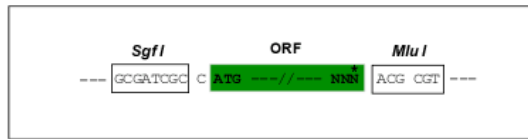
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8113\\_d11.zip](https://cdn.origene.com/chromatograms/mk8113_d11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



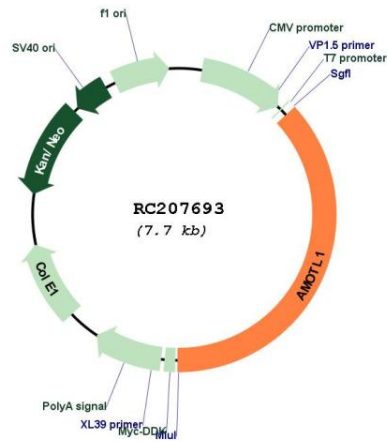
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_130847

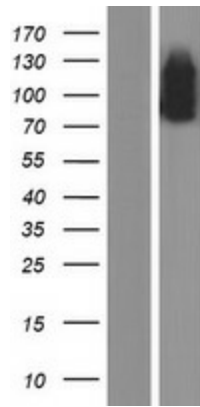
**ORF Size:** 2868 bp

<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_130847.3</a>
<b>RefSeq Size:</b>	8999 bp
<b>RefSeq ORF:</b>	2871 bp
<b>Locus ID:</b>	154810
<b>UniProt ID:</b>	<a href="#">Q8IY63</a>
<b>Cytogenetics:</b>	11q21
<b>Protein Pathways:</b>	Tight junction
<b>MW:</b>	106.4 kDa
<b>Gene Summary:</b>	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 angiotensin, an angiotensin 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]

Product images:



Circular map for RC207693



Western blot validation of overexpression lysate (Cat# [LY408899]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207693 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).