**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC219781

## AMOTL2 (NM_016201) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | AMOTL2 (NM_016201) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | AMOTL2 |
| **Synonyms:** | LCCP |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC219781 representing NM_016201
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGACACTGGAAGACTCCTCGGGGACAGTCCTGCACCGCCTCATCCAGGAGCAGCTGCGCTACGGCA
ACCTGACTGAGACGCGCACGCTGCTAGCCATCCAGCAGCAGGCCCTGAGGGGTGGGGCTGGAACTGGGGG
TACAGGGAGCCCCCAGGCCTCCCTGGAGATCCTGGCCCCAGAGGACAGTCAGGTGCTGCAGCAGGCCACC
AGGCAGGAGCCCCAGGGCCAGGAGCACCAGGGCGGTGAGAACCACCTGGCAGAGAACACCCTCTACCGGC
TATGCCCACAGCCCAGCAAGGGAGAGGAGCTGCCCACCTATGAGGAGGCCAAAGCCCACTCGCAGTACTA
TGCGGCCCAGCAGGCAGGGACCCGGCCACATGCGGGGGACCGAGATCCCCGTGGGGCCCCGGGAGGCAGT
CGGAGGCAGGACGAGGCCCTGCGGGAGCTGAGGCATGGGCACGTGCGCTCGTTGAGTGAACGGCTCCTTC
AGTTGTCCCTGGAGAGGAACGGCGCCCGGGCCCCCAGCCACATGAGCTCCTCCCACAGCTTCCCACAGCT
GGCCCGCAACCAGCAGGGCCCCCCACTGAGGGGCCCCCCTGCTGAGGGCCCAGAGTCCCGAGGACCCCCA
CCTCAGTACCCTCATGTTGTACTAGCTCATGAGACCACCACTGCTGTCACTGACCCACGGTACCGTGCCC
GCGGCAGCCCGCACTTCCAGCATGCTGAAGTCAGGATCCTGCAGGCCCAGGTGCCTCCTGTGTTCCTCCA
ACAGCAGCAGCAGTACCAGTACCTGCAGCAATCTCAGGAGCACCCCCCTCCCCCACATCCAGCTGCTCTC
GGCCATGGCCCCCTGAGCTCCCTCAGTCCACCTGCTGTGGAGGGGCCAGTGAGTGCCCAGGCCTCCTCAG
CCACCTCGGGCAGTGCCCACCTGGCCCAGATGGAGGCCGTGCTGAGGGAGAATGCCAGGCTGCAGAGAGA
CAATGAGCGGCTGCAGAGGGAGCTGGAGAGCTCTGCGGAGAAGGCTGGCCGCATTGAGAAGCTGGAAAGC
GAAATCCAGCGGCTCTCTGAGGCCCATGAGAGCCTGACCAGAGCCTCCTCCAAGCGTGAGGCCCTGGAGA
AGACCATGCGGAACAAGATGGACAGTGAAATGAGGAGGCTGCAAGACTTCAACCGGGATCTTAGAGAGAG
ATTGGAATCTGCAAATCGCCGCCTGGCAAGCAAGACACAGGAGGCCCAGGCCGGCAGTCAGGACATGGTG
GCCAAGCTGCTTGCTCAGAGCTACGAACAGCAGCAGGAGCAAGAGAAGCTGGAGCGAGAGATGGCACTGC
TGCGCGGCGCCATCGAGGACCAGCGGCGGCGTGCCGAGCTGCTGGAGCAGGCTCTGGGCAATGCGCAGGG
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CAGGCGCTCGGGCAGCTGCAGGCAGCCTGTGAGAAGCGGGAGCAGCTGGAGCTGCGTCTGCGGACTCGCC
TGGAGCAGGAACTCAAGGCCCTGCGTGCACAGCAGAGACAGGCAGGTGCCCCAGGTGGTAGCAGTGGCAG
TGGTGGGTCTCCAGAGCTCAGCGCCCTGCGACTGTCAGAACAACTGCGAGAGAAGGAGGAGCAGATCCTG
GCGCTGGAGGCCGACATGACCAAGTGGGAGCAGAAGTATTTGGAGGAACGTGCCATGAGGCAGTTTGCCA
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AGGAACCCAGGGCTGGCAAGGGCTCTCTTCTAGTGAGCGACAAACAGCAGACGCCCCTGCTCGGCTGACT
ACAGCAGACAGAGCACCCACAGAGGAGCCAGTGGTCACAGCTCCCCCTGCTGCCCATGCCAAACACGGGA
GCAGAGATGGGAGCACCCAGACTGAGGGCCCCCCAGACAGCACCTCCACCTGCCTGCCACCGGAGCCTGA
CAGCCTTCTGGGGTGCAGCAGTAGCCAGAGAGCAGCCTCTCTGGACTCTGTAGCTACATCCAGAGTCCAG
GACTTGTCAGACATGGTGGAGATACTGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC219781 representing NM_016201
Red=Cloning site Green=Tags(s)

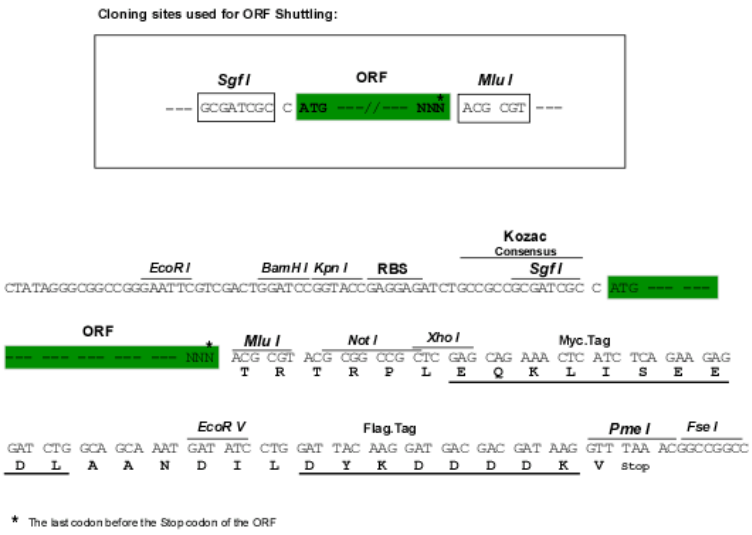
MRTLEDSSGTVLHRLIQEQLRYGNLTETRTLLAIQQQALRGGAGTGGTGSPQASLEILAPEDSQVLQQAT
RQEPQGQEHQGGENHLAENTLYRLCPQPSKGEELPTYEEAKAHSQYYAAQQAGTRPHAGDRDPRGAPGGS
RRQDEALRELRHGHVRSLSERLLQLSLERNGARAPSHMSSSHSFPQLARNQQGPPLRGPPAEGPESRGPP
PQYPHVVLAHETTTAVTDPRYRARGSPHFQHAEVRILQAQVPPVFLQQQQQYQYLQQSQEHPPPPHPAAL
GHGPLSSLSPPAVEGPVSAQASSATSGSAHLAQMEAVLRENARLQRDNERLQRELESSAEKAGRIEKLES
EIQRLSEAHESLTRASSKREALEKTMRNKMDSEMRRLQDFNRDLRERLESANRRLASKTQEAQAGSQDMV
AKLLAQSYEQQQEQEKLEREMALLRGAIEDQRRRAELLEQALGNAQGRAARAEEELRKKQAYVEKVERLQ
QALGQLQAACEKREQLELRLRTRLEQELKALRAQQRQAGAPGGSSGSGGSPELSALRLSEQLREKEEQIL
ALEADMTKWEQKYLEERAMRQFAMDAAATAAAQRDTTLIRHSPQPSPSSSFNEGLLTGGHRHQEMESRLK
VLHAQILEKDAVIKVLQQRSRRDPGKAIQGSLRPAKSVPSVFAAAAAGTQGWQGLSSSERQTADAPARLT
TADRAPTEEPVVTAPPAAHAKHGSRDGSTQTEGPPDSTSTCLPPEPDSLLGCSSSQRAASLDSVATSRVQ
DLSDMVEILI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk8018_g06.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_016201

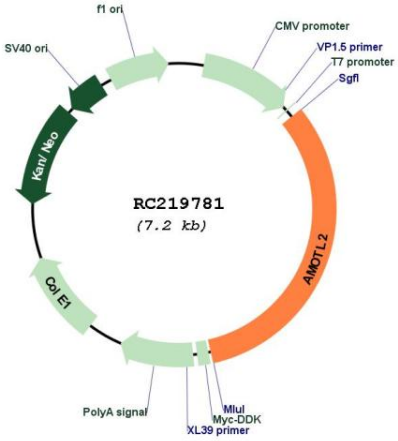
**ORF Size:** 2340 bp

**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.

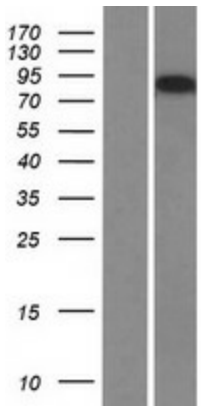
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **Note:** | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| **RefSeq:** | NM_016201.4 |
| **RefSeq Size:** | 4984 bp |
| **RefSeq ORF:** | 2343 bp |
| **Locus ID:** | 51421 |
| **UniProt ID:** | Q9Y2J4 |
| **Cytogenetics:** | 3q22.2 |
| **MW:** | 85.7 kDa |
| **Gene Summary:** | Angiomotin is a protein that binds angiostatin, a circulating inhibitor of the formation of new blood vessels (angiogenesis). Angiomotin mediates angiostatin inhibition of endothelial cell migration and tube formation in vitro. The protein encoded by this gene is related to angiomotin and is a member of the motin protein family. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013] |

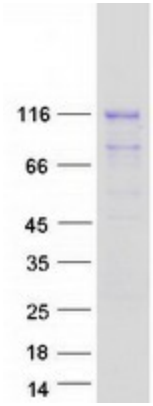
## Product images:




Circular map for RC219781




Western blot validation of overexpression lysate (Cat# [LY414133]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219781 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).




Coomassie blue staining of purified AMOTL2 protein (Cat# [TP319781]). The protein was produced from HEK293T cells transfected with AMOTL2 cDNA clone (Cat# RC219781) using MegaTran 2.0 (Cat# [TT210002]).