

Product datasheet for **RC239657**

AMOTL2 (NM_001278683) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMOTL2 (NM_001278683) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMOTL2
Synonyms:	LCCP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239657 representing NM_001278683
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTGGGCGAAAAGCCAGCGGTGGCACACCTTGCACCTCTGCGTAAAGGGGCGCCTATTATCACCTTGG
 GGAAGAACTGGACAGAGCGCCTGGCGGGGGTGATTTCAGTTGGGTGCTCTGGGGCCAGGTGCCACCGGCC
 ATTGTCCAGGCAGCTGTGTGCAAGCCAAAGAAGCATGAGGACACTGGAAGACTCTCGGGGACAGTCCTG
 CACCGCCTCATCCAGGAGCAGCTGCGCTACGGCAACCTGACTGAGACGCGCACGCTGCTAGCCATCCAGC
 AGCAGGGCCTGAGGGGTGGGGTGAAGTGGGGTACAGGGAGCCCCAGGCCTCCCTGGAGATCTGGC
 CCCAGAGGACAGTCAGGTGCTGCAGCAGGCCACCAGGCAGGAGCCCCAGGGCCAGGAGCACCAGGGCGGT
 GAGAACCACCTGGCAGAGAACCCTCTACCGGCTATGCCACAGCCCAGCAAGGGAGAGGAGCTGCCCA
 CCTATGAGGAGGCCAAAGCCCACTCGCAGTACTATGCGGCCCAGCAGGCAGGGACCCGGCCACATGCGGG
 GGACCGAGATCCCGTGGGGCCCCGGGAGGCAGTCGGAGGCAGGACGAGGCCCTGCGGGAGCTGAGGCAT
 GGGCACGTGCGCTCGTTGAGTGAACGGCTCCTTCAAGTTGTCCCTGGAGAGGAACGGCGCCCGGGCCCCA
 GCCACATGAGCTCCTCCACAGCTTCCACAGCTGGCCCGCAACCAGCAGGGCCCCCACTGAGGGGCC
 CCCTGCTGAGGGCCAGAGTCCCGAGGACCCCCACCTCAGTACCCTCATGTTGTACTAGCTCATGAGACC
 ACCACTGCTGCTACTGACCCACGGTACCGTGCCCGCGGCAGCCCGCACTTCCAGCATGCTGAAGTCAGGA
 TCCTGCAGGGCCAGGTGCCTCCTGTGTTCTCCAACAGCAGCAGCAGTACCAGTACCTGCAGCAATCTCA
 GGAGCACCCCTCCCCACATCCAGCTGCTCTCGCCATGGCCCCCTGAGTCCCTCAGTCCACCTGCT
 GTGGAGGGCCAGTGAGTGCCAGGCCTCCTCAGCCACCTCGGGCAGTGGCCACCTGGCCAGATGGAGG
 CCGTGCTGAGGGAGAATGCCAGGCTGCAGAGAGACAATGAGCGGCTGCAGAGGGAGCTGGAGAGCTCTGC
 GGAGAAGGCTGGCCGATTTGAGAAGCTGGAAAGCGAAATCCAGCGGCTCTCTGAGGCCCATGAGAGCCTG
 ACCAGAGCCTCCTCAAGCGTGAGGCCCTGGAGAAGACCATGCGGAACAAGATGGACAGTGAATGAGGA
 GGCTGCAAGACTTCAACCGGGATCTTAGAGAGAGATTGGAATCTGCAAATCGCCGCTGGCAAGCAAGAC
 ACAGGAGGCCAGGCCGGCAGTCAGGACATGGTGGCAAGCTGCTTGTGCTCAGAGCTACGAACAGCAGCAG
 GAGCAAGAGAAGCTGGAGCGAGAGATGGCACTGCTGCGCGGCCCATCGAGGACCAGCGGGCGGTGCCG
 AGCTGCTGGAGCAGGCTCTGGGCAATGCGCAGGGCCGGCAGCTCGAGCCGAAGAGGAGCTGCGCAAGAA
 GCAGGCCATGTGGAGAAAGTGGAGCGGCTGCAGCAGGCCGCTCGGGCAGCTGCAGGCAGCCTGTGAGAAG
 CGGGAGCAGCTGGAGCTGCGTCTGCGGACTCGCCTGGAGCAGGAACTCAAGGCCCTGCGTGCACAGCAGA
 GACAGGCAGGTGCCCCAGGTGGTAGCAGTGGCAGTGGTGGGTCTCCAGAGCTCAGCGCCCTGCGACTGTC
 AGAAACACTGCGAGAGAAGGAGGAGCAGATCCTGGCGCTGGAGGCCGACATGACCAAGTGGGAGCAGAAG
 TATTTGGAGGAACGTGCCATGAGGCAGTTTGGCATGGATGCGGCTGCCACGGCTGCTGCTCAGCGTGACA
 CCACTCTCATCCGACATCCCCCAGCCCTCACCCAGCAGCAGCTTCAATGAGGGTCTGCTCACTGGTGG
 CCACAGGCATCAGGAGATGGAAAGCAGGTTAAAGGTGCTCCATGCCAGATCCTGGAGAAGGATGCAGTG
 ATCAAGGTCTTACGACGCTCCAGGAGAGACCCTGGCAAGGCCATCCAGGGCTCCCTGCGGCCTGCCA
 AGTCGGTGCCATCTGTTTTGCGGGCTGCGGCAGCAGGAACCCAGGGCTGGCAAGGGCTCTTTCTAGTGA
 GCGACAAACAGCAGACGCCCTGCTCGGCTGACTACAGACAGAGCACCCACAGAGGAGCCAGTGGTCACA
 GCTCCCCCTGCTGCCATGCCAAACACGGGAGCAGAGATGGGAGCACCCAGACTGAGGGCCCCCAGACA
 GCACCTCCACCTGCCTGCCACCGAGCCTGACAGCCTTCTGGGGTGCAGCAGTAGCCAGAGAGCAGCCTC
 TCTGGACTCTGTAGCTACATCCAGAGTCCAGGACTTGTGACAGATGGTGGAGATACTGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239657 representing NM_001278683
Red=Cloning site Green=Tags(s)

MTGRKASGGTPCTLRKGAPIITLGKNWTERLAAGDSVGC SGARCHRPLSRQLCASQRSMRTLEDSSGTVL
HRLIQEQLRYGNLTETRTLLAIQQALRGGAGTGGTGPQASLEILAPEDSOVLQQATRQEPQGQEHQGG
ENHLAENTLYRLCPQPSKGEELPTYEEAKAHSQYAAQAGTRPHAGDRDPRGAPGGSSRRQDEALRELH
GHVRSLSERLLQLSLERNGARAPSHMSSHSFPQLARNQQGPPLRGPPAEGPESRGPYPYPHVLAHET
TTAVTDPRYRARGSPHFQHAIEVRIILQAQVPPVFLQQQQYQYLQQSQEHPPPPHAAALGHGPLSSLSPPA
VEGPVSAQASSATSGSAHLAQMEAVLRENARLQRDNERLQRELESSAEKAGRIEKLSEIQRLSEAHESL
TRASSKREALEKTMRNKMDSEMRRLQDFNRDLRERLESANRRLASKTQEAQAGSQDMVAKLLAQSYEQQ
EQEKLEREMALLRGAIEDQRRRAELLEQALGNAQGRAARAEELRKKQAYVEKVERLQQALGQLQAACEK
REQLRLRLRTRLEQELKALRAQQRQAGAPGGSSGGSPESALRLSEQLREKEEQILALEADMTKWEQK
YLEERAMRQFAMDAAATAAAQRDTTLIRHSPQSPSSSFNEGLLTGGHRHQEMESRLKVLHAQILEKDAV
IKVLQQSRDPGKAIQGSRLPAKSVPSVFAAAAAGTQGWQLSSSERQTADAPARLTTDRAPTEEPVVT
APPAAHAKHGSRDGSTQTEGPPDSTSTCLPPEPDSLLGCSSSQAASLDSVATSRVQDLSDMVEILI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

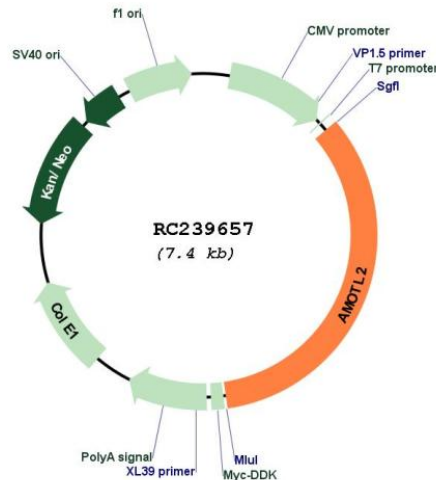
Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001278683

ORF Size: 2511 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:

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_001278683.1](#), [NP_001265612.1](#)

RefSeq Size: 4991 bp

RefSeq ORF: 2514 bp

Locus ID: 51421

UniProt ID: [Q9Y2I4](#)

Cytogenetics: 3q22.2

MW: 92.3 kDa

Gene Summary: Angiomotin is a protein that binds angiotensin, a circulating inhibitor of the formation of new blood vessels (angiogenesis). Angiomotin mediates angiotensin inhibition of endothelial cell migration and tube formation in vitro. The protein encoded by this gene is related to angiotensin and is a member of the motin protein family. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]