

## Product datasheet for **MR207385**

### **Amotl2 (NM\_019764) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Amotl2 (NM_019764) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amotl2
Synonyms:	AW549739; C79691; Lccp; MASCOT; mKIAA0989
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207385 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGACACTGGAAGACTCCTCAGGGACAGTCTGCACCGTCTCATCCAAGAGCAGCTGCGCTACGGCA  
 ACCTGACAGAGACTCGCACTCTGCTGGCTATCCAGCAGCAGGCCCTGCGGGTGGGGCTGGAGCTGGGG  
 CACGGGGAGCCCCAGGCTTCTTGGAGATCGGAGCACCCGAGGACAGTCAAGTGTGCAGCAAGCCACC  
 AGGCAGGAGCCCCAGGGCCAGGAGCATCAGGGTGGAGAGACCCACCTGGCAGAGAACAGGCTGTACCGGC  
 TGTGCCACAGCCAGCAAAAGGAGAAGAGTTGCCACCTATGAGGAGGCCAAAGCCATTTCGAGTACTA  
 CGCAGCGCAGCAGGCAGGGTCCCGGCCGATGTTGGGACCGGGATCCTAGAGGAGGGTGTCCGGAGGC  
 GGCCGGCAGCAGGATGAAGCTCTTCGAGAGCTGAGGCATGGCCATGTGCGCTCCTTGAGTGAACGGCTTC  
 TGCAACTGTCCCTGAAAGAAACGGTGTCTGGGTCCCCAGCCACATGAGCTCTTCCACAGCTTCCCTCA  
 GCTGGCCCGCAGCCAGCAGGGCCCCAACCCGAGGGCCCCAGCTGAGGGCCCAGAGCCCCGGGCCA  
 CCACCTCAGTACCCACACGCTGTAAATGGCTCAGGAGACTGCGGCTGTCACTGACCCAAGATACCGACCC  
 GAAGCAGCCCACACTTCCAGCATGCCGAAGTCAGGATCCTGCAGGCCAGGTACCACCGGTGTTCTCCA  
 GCAGCAGCAGTACCAGTACCTGCCGAGCCCCAGGAGCACTCTCCACCCCTCCACCCGGCAGCTCTGGGC  
 CATGGACCCCAAGCTCCTTTGGTCCACCTGCAGTGGAGGGACCACCCAGTGCACAGGCCACCTTGGGCA  
 GTGCCACCTGGCCAGATGGAGACTGTACTGAGGAGAATGCCAGGCTGCAGAGGGACAATGAGCGATT  
 GCAGAGAGAGCTGGAGAGCACTCAGAGAAGGCTGGCCGCATAGAAAAGCTGGAAAATGAAATCCAGCGG  
 CTCTCTGAGGCCACGAGAGCCTGATGAGGACCTTCCAAGCGTGAGGCCCTGGAGAAGACCATGAGGA  
 ACAAGATGGACGGTGAGATGAGACGGTTGCAGGACTTCAACCGAGACCTTAGAGAGAGATTGGAATCGGC  
 AAACCGCCACCTGGCAAGCAAGACCCAGGAAGCCAGGCCGGCAGTCAGGACATGGTGGCGAAACTGCTT  
 GCCCAGAGCTATGAGCAGCAACAGGAACAGGAGAAGCTGGAGCGGAGATGGCACTGCTGCGTGGTGCCA  
 TCGAGGACCAGCGGCAGCATGCTGAACTGCTGGAGCAGGCTCTGGGCAATGCACAAAGCCGTGCCCCCG  
 GGCTGAAGAGGAGCTACGAAAAAGCAGGCCTATGTGGAGAAGGTGGAGCGGCTGCAGCAGGCACTGGGG  
 CAGTTGCAGGCTGCCTGTGAAAAGCGAGAGCAGTTGGAGCTGCGTCTGCGCACGCGCCTGGAGCAGGAAC  
 TCAAAGCCTTGCCTGCACAGCAGAGGCAGACAGGCACCCTCGCAGGTGGTGGCGGCAGCCATGGTGGGTC  
 CGCCGAGCTCAGTGCCCTGCGGCTGTCTGAACAGCTGCGGGAGAAGGAGGAACAGATCCTGGCTCTAGAG  
 GCGGACATGACCAAGTGGGAACAGAAGTATTTGGAAGAACGGGCTATGAGGCAGTTCGCCATGGACGCGG  
 CTGCCACTGCGGCTGCCAGCGGATACCACTCTCATCCGGCACTCCCCCAGCCCTCGCCAGCAGCAG  
 TTTCAACGAGGGCCTGCTGCCAGGCAACCACAGGCACCAGGAGATGGAGAGCAGATTGAAGTGTCCAT  
 GCTCAGATCCTAGAGAAGGATGCGGTGATCAAGGTCTTCAGCAGCGCTCCAGGAAAGACCCCTGGCAAGG  
 CCACCCAGGGCACCCACGGCTGCCAAGTCGGTCCGCTCCATCTTCGCGGCTGCAGTGGGAACTCAGGG  
 CTGGCAAGGGCTCGATCCAGTGAAGCGCAAACTGATGCACGGCCAGCGGGAGACCCGGTCCCAGCAGAG  
 GAGCCTCCGGCCACAGCTCCTCTCCCTGCCACACCAACATGGCAGCAGAGACGGGAGCACCCAGACGG  
 ATGGCCCTGCAGACAACCTCTGCCTGCTTGGCTCAGAACCCGATGGCTCCTGGGGTGAACAGTAG  
 CCAGAGGACACCCCTCTTGACTCTATAGCTGCAACCAGAGTCCAGGATCTGTGAGACATGGTAGAAATA  
 CTGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

&gt;MR207385 protein sequence

Red=Cloning site Green=Tags(s)

MRTLEDSSGTVLHRLIQEQLRYGNLTETRTLLAIQQQALRGGAGAGGTGSPQASLEIGAPEDSQVLQQAT  
RQEPQGGQEHQGGETHLAENRLYRLCPQPSKGEELPTYEEAKAHSQYYAAQQAGSRPHVGDPRGGVSGG  
GRRQDEALREL RHGHVRSLSERLLQLSLERNGARVPSHMSSSHSFPQLARSQQGPQPRGPPAEGPEPRGP  
PPQYPHAVMAQETA AVTDPYRPRSSPHFQHAEVRI LQAQVPPVFLQQQQYQYLPQPQEHSPPLHPAALG  
HGPPSSFPPAVEGPPSAQATLGS AHLAQMETVLR ENARLQRDNERLQRELESTSEKAGRIEKL ENEIQR  
LSEAHESLMRTSSKREALEKTRNKMDGEMRRLQDFNRDLRERLESANRHLASKTQEAQAGSQDMVAKLL  
AQSYEQQQEQEKLEREMALLRGAIEDQRRHAELLEQALGNAQSRAARAEELRKKQAYVEKVERLQQALG  
QLQAACEKREQLRLRTRLEQELKALRAQQRTGTLAGGGGSHGGS AELSALRLSEQLREKEEQILALE  
ADMTKWEQKYLEERAMRQFAMDAATAAAQRD TTLIRHSPQSPSSSFNEGLLPGNHRHQEMESRLKVLH  
AQILEKDAVIKVLQQRSRKDPGKATQGTLRPAKSVPSIFAAAVGTQGWQGLVSSERQTDARPA GDRVPAE  
EPPATAPLPAHTKHGSRDGTQTDGPADNTSACLASEPDG LLGCNSSQRTPSLDSIAATRVQDLS DMVEI  
LI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

## Restriction Sites:

Sgfl-Mlul



**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\\_019764.2](#), [NP\\_062738.2](#)

**RefSeq Size:** 4191 bp

**RefSeq ORF:** 2319 bp

**Locus ID:** 56332

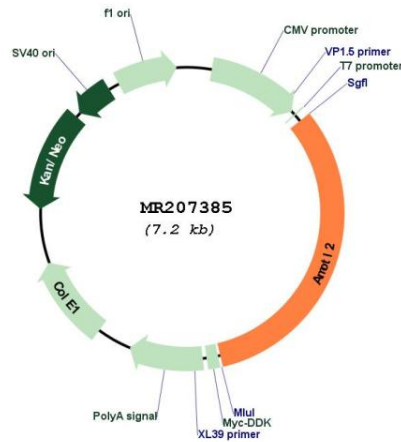
**UniProt ID:** [Q8K371](#)

**Cytogenetics:** 9 F1

**MW:** 85.3 kDa

**Gene Summary:** Regulates the translocation of phosphorylated SRC to peripheral cell-matrix adhesion sites. Required for proper architecture of actin filaments. Inhibits the Wnt/beta-catenin signaling pathway, probably by recruiting CTNNB1 to recycling endosomes and hence preventing its translocation to the nucleus. Participates in angiogenesis. May play a role in the polarity, proliferation and migration of endothelial cells. Selectively promotes FGF-induced MAPK activation through SRC (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR207385