

Product datasheet for **MR209494**

Amot (BC057638) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amot (BC057638) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amot
Synonyms:	CAG-2, mKIAA1071
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209494 representing BC057638
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAACACCGAGGTCCCCGCCAGAATACCCTTTCAAGGGCGTGCCATCCCAGTCTGTAGTGTGCAAGT
 CCCAAGAGCCAGGGCACTTCTATAGTGAGCATCGCCTGAACCAGCCAGGAGAACAGAGGGGCAACTGAT
 GAGGTATCAGCACCCCTGAGTATGGGCGAGCCAGGCAACACAGGACATCTCCTCGTGTCTTTGTCA
 GCCAGAACTCTCAACCTCATAGCCCTACTTCTCCCTGACAGCTGGGGCTTCCAGCTTGCCTTGTCTGC
 AGTCTCCGCCGTCCACTAGATTGCCTCCTGGTCAACACCTGGTCCCGAACCAAGGTGACCACTCTGCTCA
 CCTGTCAAGGCATCAGCAGCATCTTCTTCGAGTCAGAGTCATCAGGGGGACCACTACCGTCACGCCACG
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 GTCTGATGAGAAATCGCAACTTGCAGCAGGAGTTGGATGGATGCTATGAGAAGGTGGCGAGACTGCAGAAG
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 GAGAGACCGTCTAGAGACTGCCAACAGCAGCTGGCAGAGAAGGAGTACGAGGGGTCCGAGGACACCAGG
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 TGGCTACTGCCCGTTCTACCAATGAAGACCAAAGGCGACACATTGAAATCCGAGACCAGGCATTGAGCAA
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 AAGATGCAGCAGGCCCTTGTGCAGCTCCAGGCCCTGTGAGAAGCGTGAGCAGCTGGAACACCCGGCTCC
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 CTGCTGCAACTGTGGCTGCACAGAGAGACACAACAGTCATTAGCCACTCTCCTAACACCAGCTATGACAC
 AGCCTTAGAGGCCCGCATCCAGAAGGAAGAGGAAGAAATCCTGATGGCCAACAAGCGTTGCTTGGACATG
 GAAGGAAGGATTAAGACCCTCCATGCCAGATTATTGAAAAGGATGCCATGATCAAGGTGCTGCAGCAGC
 GCTCCAGAAGGAGCCGAGTAAACAGAGCAACTCTCATCCATGCGGCCAGCAAAGTCTCTGATGCCAT
 TTCCAATGCTGGATCAGGCCTCCTTGCACTACTCCTCTACCTTGACTGGTGGCCCATATGGAGGAGAAG
 CGTGATGACAAGAGCTGGAAGGGGAGCCTAGTTAAGGAAAAGGAAAGCAACAGAAGCAAAGGCACAGTGA
 CAGACTTAGAAAAGTGCCTGACTCTGTTACACACAGCAAGGAAAAGGACAAATGGTCCAGGTTCTAGAGA
 GGAGAATTTGGAGTCCCCCTCTCAATGAATTAGATTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

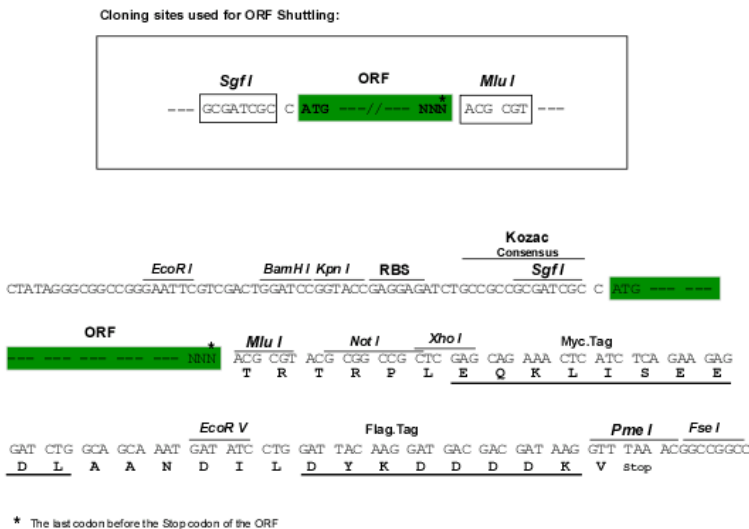
>MR209494 representing BC057638
 Red=Cloning site Green=Tags(s)

MEHRGPPPEYPFKGVPSQSVVCKSQEPGHFYSEHRLNQPGRTEGQLMRYQHPPEYGAARATQDISSL
 ARNSQPHSPTSSLTAGASSLPLLSPPSTRLLPPGQHLVPNQGDHSAHL SRHQHLLSSQSHQGDHYRHAQ
 ASL TSAQQQPGEAYSAMPRAQQSASYQMPADPFAIVSRAQQMVEILSDENRNL RQELDGCYEVARLQK
 VETEIQRVSEAYENLVKSSSKREALEKAMRNKLEGEIRRMHDFNRDLRDRLETANKQLAEKEYEGSEDTR
 KTI SQLFAKHKENQREKEKLEAELATARSTNEDQRRHIEIRDQALSNAQAKVVKLEELKKKQVYVDKVE
 KMQQALVQLQAACEKREQL EHLRLRTRLERELESRLIQRQGNSSQPTNASEYNAAALMELLREKEERILAL
 EADMTKWEQKYLEENVMRHFALDAAATVAAQRDTTVISHSPNTSYDTALEARIQKEEEEILMANKRCLDM
 EGRIKTLHAQII EKDAMIKVLQQRSRKEPSKTEQLSSMRPAKSLMSISNAGSGLLAYSSTLTGAPIMEEK
 RDDKSWKGSGLGKEKESNRSKGTVDLESVLTLLHTARKRDNGPGSREENLESPLSMELDL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC057638

ORF Size: 1860 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: [BC057638.1](#)

RefSeq Size: 2405 bp

RefSeq ORF: 1862 bp

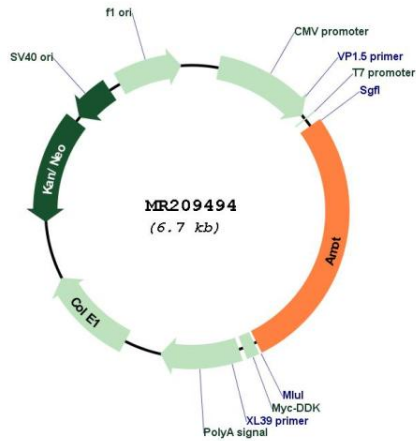
Locus ID: 27494

Cytogenetics: X F2

MW: 88.1 kDa

Gene Summary: Plays a central role in tight junction maintenance via the complex formed with ARHGAP17, which acts by regulating the uptake of polarity proteins at tight junctions. Appears to regulate endothelial cell migration and tube formation. May also play a role in the assembly of endothelial cell-cell junctions (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209494