

## Product datasheet for **MC229049**

### **Amot (NM\_001290274) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Amot (NM_001290274) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Amot
Synonyms:	CAG-2; D0Kist1; Sii6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC229049 representing NM\_001290274  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAAGTTCTGACGATCAGCCAAGTGGAGGAACGACGGTACTGCAACGGCTGCTTCAAGAGCAGCTTC  
 GCTATGGCAATCCCAGTGAGAATCGCAGTCTGCTTGCCATACACCAGCAAGCCACAGGGAATAGCTCTCC  
 ATTTTCCACGGGCACTGGGAACCAAGGCCCTCAGAATGATGTATTGAGTCCCAGGATCACCACCAGCAG  
 CAGCTTGTGGCACACCCTGCTCGCCAAGAGCCCAGGGTCAGGAAATCCAGTCAGAAAACGGCGTCATGG  
 AGAAGCAGCTGTCCCCTCGAATGCAGAATAACGAAGAATCCCAACCTATGAAGAGGCCAAGGTCCAGTC  
 CCAGTACTTCAGGGGCCAGCAGCATGCTAGTGTGGGGCTGCTTCTATGTCACAGGAGTCACCAACCAG  
 AAGATGAGAACCAGGGACGCCGTCAGTCCAGCGCCTCAGCCCCGGAAGATGCACCAAGATGAAGGCC  
 TTCGAGATCTTAAGCAAGGGCATGTCGATCCTTGAGTGAAGACTGATGCAGATGTCATTGGCTACCAG  
 TGGAGTTAAAGCCACCCACCTGTACCAGTGTCTCTCTCCCCACCACAACCCAATGATCTCTACAAG  
 AATGCCACCAGTTCAGTGAATTCACAAGGCCAAGGGCCACCTCCAAGCCAACATAGTCTGAAGGGCA  
 TGGAACACCGAGGTCCCCCGCCAGAATACCCCTTCAAGGGCGTGCCATCCAGTCTGTAGTGTGCAAGTC  
 CCAAGAGCCAGGGCACTTCTATAGTGAGCATCGCCTGAACCAGCCAGGGAGAACAGAGGGGCAACTGATG  
 AGGTATCAGCACCCCCCTGAGTATGGGGCAGCCAGGGCAACACAGGACATCTCCTCGCTGTCTTTGTGCA  
 CCAGGAACTCTCAACCTCATAGCCCTACTTCTCCCTGACAGCTGGGGCTTCAGCTTGCCTTGTGCA  
 GTCTCCGCCGTCAGTATGCCTCCTGGTCAACACCTGGTCTCGAACCAAGGTGACCACTCTGCTCAC  
 CTGTCAAGGCATCAGCAGCATCTTCTTCGAGTCAGAGTCATCAGGGGGACCACTACCGTCACGCCCCAG  
 CCACGCTGACTTCAGCGCAGCAGCAGCCAGGAGAAGCCTACTCAGCTATGCCTCGGGCTCAGCAGCTGC  
 TTTCTATCAGCCCATGCCAGTGAACCTTTTGGCTATGGTCTCTAGAGCTCAGCAGATGGTTGAGATCCTG  
 TCTGATGAGAATCGCAACTTGGCGCAGGAGTTGGATGGATGCTATGAGAAGGTGGCGAGACTGCAGAAGG  
 TGGAGACAGAAATCCAACGGGTCTCAGAGGCTTATGAGAACTTGGTGAAGTCATCTTCCAAAAGAGAGGC  
 TCTGGAGAAAGCCATGAGGAACAAGCTGGAGGGCGAGATTAGAAGGATGCATGACTTCAACAGAGATCTG  
 AGAGACCGTCTAGAGACTGCCAACAAGCAGCTGGCAGAGAAGGAGTACGAGGGTCCGAGGACACCAGGA  
 AGACCATCTCGCAGCTCTTGGCCAAACATAAAGAAAACCAGCGGAGAAGGAGAAGCTGGAAGCTGAGCT  
 GGCTACTGCCCGTTCTACCAATGAAGACCAAAGGCGACACATTGAAATCCGAGACCAGGCATTGAGCAAT  
 GCCCAGGCGAAGGTGGTGAAGCTGGAAGAAGAGCTGAAAAAGAAGCAAGTGTACGTAGATAAGGTGGAGA  
 AGATGCAGCAGGCCCTTGTGCAGCTCCAGGCCGCTGTGAGAAGCGTGAGCAGCTGGAGCACCGGCTCCG  
 GACACGTTTGGAGAGGGAAGTGAATCCCTTAGAATCCAGCAGCGCCAGGGCAACTCCCAGCCCCTAAT  
 GCTTCAGAATACAATGCCGCTGCACTGATGGAGCTCCTCCGGGAGAAGGAAGAGAGAATTCTGGCCCTGG  
 AAGCAGATATGACCAAGTGGGAGCAAAAGTATTTGGAAGAGAATGTGATGAGACACTTTGCTCTGGATGC  
 TGCTGCAACTGTGGTGCACAGAGAGACACAACAGTCAATAGCCACTCTCCTAACACCAGCTATGACACA  
 GCCTTAGAGGCCCGCATCCAGAAGGAAGAGGAAGAAATCCTGATGGCCAACAAGCGTTGCTTGGACATGG  
 AAGGAAGGATTAAGACCCCTCCATGCCAGATTATTGAAAAGGATGCCATGATCAAGGTGCTGCAGCAGCG  
 CTCCAGAAAGGAGCCGAGTAAAACAGAGCAACTCATCCATGCGGCCAGCAAGTCTCTGATGTCCATT  
 TCCAATGCTGGATCAGGCCCTCCTTGACACTCCTACCTTACTGCTGGTGGCCATTATGGAGGAGAAGC  
 GTGATGACAAGAGCTGGAAGGGGAGCCTAGGTAAGGAAAAGGAAAAGCAACAGAAGCAAAGGCACAGTGAC  
 AGACTTAGAAAAGTGTCTGACTCTGTTACACACAGCAAGGAAAAGGGACAATGGTCCAGGTTCTAGAGAG  
 GAGAATTTGGAGTCCCCCTCTCAATGGAATTAGATTTA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001290274  
**Insert Size:** 2562 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>RefSeq:</b>	<u>NM_001290274.1, NP_001277203.1</u>
<b>RefSeq Size:</b>	2937 bp
<b>RefSeq ORF:</b>	2562 bp
<b>Locus ID:</b>	27494
<b>UniProt ID:</b>	<u>Q8VHG2</u>
<b>Cytogenetics:</b>	X F2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks several exons and it's 3'-terminal exon extends past a splice site that is used in variant 1. The encoded isoform (2) has a shorter and distinct C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>