

## Product datasheet for MR215464

### Amot (NM\_153319) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Amot (NM_153319) Mouse Tagged ORF Clone                                     |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Amot  |
| Synonyms:                 | CAG-2; DOKist1; Sii6  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR215464 representing NM_153319<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGAAGTTCTGACGATCAGCCAAGTGGAGGAACGACGGTACTGCAACGGCTGCTTCAAGAGCAGCTTC  
GCTATGGCAATCCAGTGAGAATCGCAGTCTGCTTCCATACACCAGCAAGCCACAGGGAATAGCTCTCC  
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TGGAGACAGAAAACCAACGGGTCTCAGAGGCTTATGAGAAGTGGTGAAGTCATCTTCCAAAAGAGAGGC  
TCTGGAGAAAGCCATGAGGAACAAGCTGGAGGGCGAGATTAGAAGGATGCATGACTTCAACAGAGATCTG



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AGAGACCGTCTAGAGACTGCCAACCAAGCAGCTGGCAGAGAAGGAGTACGAGGGTCCGAGGACACCAGGA  
AGACCATCTCGCAGCTCTTTGCCAAACATAAAGAAAACCAGCGGAGAAAGGAGAAGCTGGAAGCTGAGCT  
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ATGGTGAATATCTCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215464 representing NM\_153319  
 Red=Cloning site Green=Tags(s)

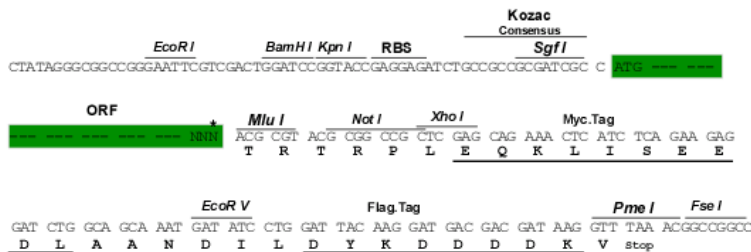
MRSSDDQPSGGTTVLQRLLEQLRYGNPSENRSLLAIHQQATGNSSPFSTGSGNQGPQNDVLSSQDHHQQ  
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 KMRTEGRPSVQRLTPGKMHQDEGLRDLKQGHVRSLSERLMQMSLATSGVKAHPPVTSAPLSPQPNDLYK  
 NATSSSEFYKAQGPPPSQHSKLGMEHRGPPPEYPFKGVPSQSVVCKSQEPGHFYSEHRLNQPGRTEGLM  
 RYQHPPEYGAARATQDISSLSLARN SQPHSPTSSLTAGASSLPLLQSPSTRLLPPGQHLVSNQGDHSAH  
 LSRHQHLLSSQSHQGDHYRHAQASL TSAQQPGEAYSAMPRAQSQASYQPMPADPFAMVSRAQQMVEIL  
 SDENRNL RQELDGCYEKVARLQKVETEIQRVSEAYENLVKSSSKREALEKAMRNKLEGEIRRMHDFNRDL  
 RDRLETANKQLAEKEYEGSEDTRKTISQLFAKHENQREKEKLEAELATARSTNEDQRRHIEIRDQALSN  
 AQAKVVKLEELKKKQVYVDKVEKMQQALVQLQAACEKREQL EHLRLRLERELESLRIQQRQNSQPTN  
 ASEYNAAALMELLREKEERILALEADMTKWEQKYLEENVMRHFALDAAATVAAQRDTTVISHSPNTSYDT  
 ALEARIQKEEEEILMANKRCLDMEGRIKTLHAQIEKDAMIKVLQQRSRKEPSKTEQLSSMRPAKSLMSI  
 SNAGSGLLAHSSLTGAPIMEEKRDDKSWKGS LGVLLGGDYRVEPVPSTPSPVPPSTPLL SAHSKTGSRD  
 CSTQTERGPSTKTA AVTPI SAPMAGPVAAAAPAAA INATAATNTATAATNTT IMVAAA PVAAVAAPA  
 AAAATPSPANAAAALAAAAPATSVSAATS VSAANSI SPAAPVAPA AVVPPAAPVSPAAAVQIPAAASLTP  
 ATVSPATAATAVA AATTAAITAAAAATTA IQVAPATSAPVPSPASIPAPATAQASAPTPTQASTPAP  
 TEPPSPVPTPALVQTEGPANPGASSGPRRLSTPNLMCNPDKPDAPAFHSSSTLERKTIQILGQEPDAE  
 MVEYLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:  
 Cloning Scheme:

Sgfl-MluI

Cloning sites used for ORF Shuttling:



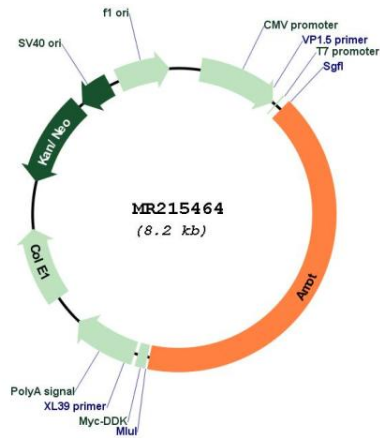
\* The last codon before the Stop codon of the ORF

ACCN: NM\_153319

ORF Size: 3378 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <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>                | <a href="#">NM_153319.3</a> , <a href="#">NP_695231.3</a>   |
| <b>RefSeq Size:</b>           | 6974 bp   |
| <b>RefSeq ORF:</b>            | 3381 bp   |
| <b>Locus ID:</b>              | 27494   |
| <b>UniProt ID:</b>            | <a href="#">Q8VHG2</a>  |
| <b>Cytogenetics:</b>          | X F2  |
| <b>MW:</b>                    | 120.9 kDa   |
| <b>Gene Summary:</b>          | 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 MR215464