

## Product datasheet for **MC222105**

### Arhgef15 (NM\_177566) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef15 (NM_177566) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef15
Synonyms:	D130071N09; D530030K12Rik; E5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222105 representing NM\_177566  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTGCACAGTCTCTTCTCAGCAACGCCCTACCTTGAAGCCCCCTCGGATCATCCGCCCCGAC  
 CCCCATCTCGGCATAGGGCTCCACACTCCCGGGGCTCTCCACAATGGCTCCTCTCCGAAAGCACTTCC  
 TCAAATATCCAATGATGCATCGGCCTCAGTGTGCACCTCCATCTTCTGGGAGCCCCCACGGCTTCCTG  
 AAGCCCCCTGCTCTTCTGCCTCCCTCAGTTTCTAGAACCAGCCTGGACTCTCAGACTTCCCTGACTCAC  
 CTTCCAGCACACCGAGTCCAGCCAGTGTCCCGGCGCTCCATCTCCCCAGAACCAGCTCCCTGCTCTCC  
 GGTGCCCCACCCAAGCCCTCTGGGTCTCCCGAACACCTCTGCCCTCGGGCCCTACGCCTCTCCAGGAT  
 GGCTCTGCTTCCGGCCCTGGCACGGTTCGTAGACTGGCCGGCAAGTTTGAATGGGAGCTGAAGGCAAAG  
 CCCAGTCTCAGACTCCCTGGAACGGTGTCCCAAGGGAGCACGGAAGTGAATGGGAGAAAGAGACTCC  
 CGAAGCCGCCCTTCTGGGAATGGGTCCCAGGAGAACGGCACTCCCGATGCTGCCCTGGCCTGCCCTCCA  
 TGCTGCCCTGTGCTGCCATGTAGCAAAGCCTGGCCTGGAGCTCCGGTGGGTGCCTGTGGGGAGTCTG  
 AGGACATCCTCAGGATCCCTGCCGGGCATCCCCACTCCGAGCCTCCCGCTCCCGCATCAATCCTCCAGT  
 CATCAGTACCCTCCAGTTGTGCTCACGTCTATCGTCCACTGCCGAGCGCAAACCTCTACCTCCCTC  
 AAGCCCCCAAGCCAACAAAGTCAGACAGGATATCAGCACCTCTGAGGAGCTTCCACAGCCAGATCTGA  
 AACTGCCTTCAGAAGATGGGATCCAAACTGCTACAAAGGCCTGGGAAGGGGACAGACCTGAAGGAGCTCC  
 TCTGAATGCTCCCGTGTAGCCTTGGAGGGAAGGGAGGAGGAAGGATTGGATGGGCTGAAGGGGCTGCAG  
 TGGGAAGTCCCTGCAGGACGAACTTATACCAGACTTACCGAGCAGTGTGCTGTAGAGGAGCTGT  
 GGGTGTGGGTGAGGATGGGGTCCCTCCAGCTAATCCTGGAGAAGCTCCACCTTCTCCAGGCTCCC  
 TGGACCTCGAAACACTCTGTGGCAGGAGCTCCCGGCTGTGAGAGGCAAGTGGCCTCTTAGAGAGTCTAAGC  
 CCCCAGGAGCGCGCATGCAGGAGAGCCTGTTTGGGTGGTGACATCAGAGGCCTCTACCTGCGATCCC  
 TGAGGCTGCTGACCGACACCTTCGTCTGAGCCAGGCTCTCCGGGACACACTCACGCCTCGGGATCATCA  
 TACGCTGTTCTCCAACGTGCAGCGAGTCCAGAGCGTCAGTGAAGCGGTTTCTAGGAACACTGCTGTCTCGT  
 GTTCGTTCTCCACACATCACTGACCTGTGTGATGTGGTGCATGCCATGCAGTTGGTCTTTCTTCG  
 TGTATGTGGATTATGTTCCGAACCAGCAGTATCAGGAGGAGACCTATAGCCGCTTATGGATACAAACGT  
 GCGCTTCTCCGAGAGCTGCGAAGGCTGCAGAGCCTCCCAAATGTGAGCGGCTCCCGCTGCCATCTTTC  
 CTGCTGCTGCCCTCCAGCGCATCACCCGCTGCGGATGCTGTTGCAGAATATCCTAAGCCAGACAGAAG  
 AGGGTCCAGTCTCAGGAGAACGCCAGAAAGGCTCTGGGTGCTGTGAGCAAGATCATTGAGCGCTGCAG  
 CGCTGAGGTGGGGCGCATGAAGCAGACGGAAGAGCTGATACGGCTCACCCAAAGTTGCGCTTCCACAAA  
 GTCAAGGCTCTACCCCTGGTCTCCTGGTACGGCGCTGGAATTGAGGGGGAGCTGACCGAGCTGGGGT  
 GTCGGAGGGGGGTGTGCTCTTACCTCCCGTCCACGCTTCACTCCCTCTGCCTACTGCTTTCAGTGA  
 CCTGCTGCTTACTACTCAGCCCAAGAGTGGGCAGCGGCTGCAGGTTCTGGACTATGCCATCGCTCCCTG  
 GTGCAGGCCCAGCAGGTTCTGACCCATCTGGACCCCTACTTTCCGCTCTCGCTTCTCAGCAACCACC  
 AGGGCCGCCACCCACAGGCTACTCCAAGCGGCTCACTATCAGACATGCAGCGCTGGCTGGGAGCCTT  
 CCCCACCCAGGTCCCTTCCCTGTTCCCGAGACACCATCTATGAGGACTGTGAGTGTCCAGGAGCTA  
 TGTTCAGAGCCATCCACACCTTCCAAGACTGAGGGGCAAAGTCTGGAGTCCAAGGCCCCCGAAAGCATC  
 TGACAAGAATCCAGAAGTTGGCTTAAGGGGTTCTTGAGCCTTCCCTGCCAACTGGTGTGTGAAGT  
 CACAGGAGAACACGAGAGGAGGAAGCATCTTCGCCAGCACAGAAAGCTCCTTGAGGCTGTAGGACCTCT  
 TCAGGCACTCTGACACCCCTCAACCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_177566  
**Insert Size:** 2550 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_177566.3</a> , <a href="#">NP_808234.2</a>
<b>RefSeq Size:</b>	4213 bp
<b>RefSeq ORF:</b>	2550 bp
<b>Locus ID:</b>	442801
<b>UniProt ID:</b>	<a href="#">Q5FWH6</a>
<b>Cytogenetics:</b>	11 B3
<b>Gene Summary:</b>	Specific GEF for RhoA activation. Does not activate RAC1 or CDC42. Regulates vascular smooth muscle contractility. Negatively regulates excitatory synapse development by suppressing the synapse-promoting activity of EPHB2.[UniProtKB/Swiss-Prot Function]