

## Product datasheet for **MC221044**

### Arhgef16 (NM\_001112744) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef16 (NM_001112744) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef16
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC221044 representing NM\_001112744  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCCAGAGACATTCTGACAGCTCTCTGGATGAGAACTACTGGAGTATCGTTCACCGCAGAGCTGC  
 GCCTCGATGCCAACGGGAACCTATCCCTGGACTCCCCATGGTCCGGAGCTCCTTGAAAGCCAGAGCCAA  
 TGCTGCCTTTGAGCCAGATGCCTCAGAACCCTGCCGCCACCTCCGTACCAGAAGCAAGAGCCTCCT  
 CGGCCATCGTCCTTAGCACGCAAAGCCCCGGCCCTCAAGATGGGCACGCAGCAGCTCATCCCCAAA  
 GTCTGGCTGTGGCCAGCAAGGCCAAGACCAAGTCCCCAGCCGCCACCAGAGCTTTGGGGCGGTGTGCT  
 CAGCAAGGAGGCTGCCAGGCGGAATCCTCAGCTTTCTCAGCCCCAGCTTCTCGTTGGATGACATGGAT  
 ATGGACATGGTTACTACCGGAACCTGAGGCGCAACCTGAGGAACAGTCTACAGGGCAGCCATGAAGG  
 GGCCGGGGCCACCAGTAGCAAGGGGACTCAGTCCAGCTTGGCCCAAGCTCCAGGCTCTCGTGAGGA  
 GGCTGCTCAGCCTCCCTCCCGGTATCCAGCCAAAATAAGAAAATCTCGGTGCGAAACGTGCGCACAAG  
 GGCTCTTTCAAAGATGACCCCCAGCTGTATCAGGAGATCCGAGAGCGGGGTTTGAACACCAGTACAGAGT  
 CCGATGATGACATTCTTGATGAGCCCTCCGGCCAGTGGGAACTCAGAGAGCGGACACCACCATCGTGGT  
 CAAGAGCTATCGGCCTGCTCAGCTCACCTGGAGCCAGCTCCCAGAGGTGCTGGAGTCAAGTGTCTGGAC  
 ACGCTGTCAACGGAAGAACGGAAGAGGCAGGAGGCCATCTTCGAGATCCTCACTTCTGAGTTCTCGTATC  
 TGCACAGCCTGAGCATCCTGGTACTGAGTTCTGTCAGTCCCGGGAGCTGAGGGCCACTATGACCCAGAC  
 GGAACACCACCACCTCTTCCAACATCTTGGATGTGATGTCTGCCAGTCAAGATTCTTTGAAGCCCTG  
 GAGCAGCGGCACAAGCTCAGGTGTGCTGGAGGACATCAGCGACATCTGGAGGACCATGCTCAGCATC  
 ATTTCCACCCTTACATCGCTACTGCTCCAACGAGGTCTATCAACAGCGCACCCCTGCAGAAGCTGTCGAA  
 CAGCAACGCAGCCTTCCGGGACGTTCTGAAGGAGATCGAGAAGCGCCTGCGTGTGGGGCCTGCCCATG  
 ATCTCTTTCTGATTCTCCCATGCAGAGAGTACCCGGCTGCCGCTGCTGACAGATACTCTGCCTGA  
 AGACGCAAGGCCATCCCGAACGTTATAAAGCTGCCAGCCAAGCCCTGAAGGCCATCAGCAAGCTGGTGAA  
 GCAGTGTAAAGGAGGAGCTCACAAGATGGAGCGCACAGAGCAGATATACACTGAACATGCAGCTGGAC  
 TTCGGCAAGGTCAAGTCCCTCCCGCTCATCTCCGCTCTCGTGGCTGCTGAAGCGTGGGGAGCTTTCC  
 TCTTGGAGGAATCCAGTATCTTTAGGAAAATCGCCAGCCGACCCAGTGTATCTGTTCTGTTCAATGA  
 TGTCTGGTTGTACCAAGAAGAAAAGTGAAGAAAGTACCTGGTCCAAGACTACGCGCAGCTAGACCAC  
 GTACAGGTGAGGAACTGGAACCTCGGAGCCCTTGTGTCAGGAGGCAGCAGCCGAGCTCCTCCGTGC  
 CCTACCCATTCCAGGTGAACCTGCTACATAACAGCGAGGGCCGCCAGGAGCAGATACTGCTGTCGTCGA  
 CTCTGCGAGTGACCGGGCCCGTGGATCACAGCACTCACCTACAAGGAGAGACAGTGGCAGGGCATCACC  
 AACAAAGGAGAACTCCCCAGGTAGAGGTACCAAGGCGTACTTTGCCAAGCAGGCTGATGAGATCACAC  
 TGCAACAGGCTGACATCGTCTGGTCTGCAGGAAGAGGACGGTTGGCTACACGGGGAGCGGCTTCGGGA  
 CGGAGAGACCGGCTGGTTTCCCGAGAGCTTTGCTCACTCCATCACCAGCCGTGTGGCCGTGGAAGGCAAC  
 GTGCGCAGGATGGAGCGGCTGCGGGTGGAGACGGATGTG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001112744

**Insert Size:** 2142 bp

**OTI Disclaimer:** 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>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_001112744.1, NP_001106215.1</u>
<b>RefSeq Size:</b>	2717 bp
<b>RefSeq ORF:</b>	2142 bp
<b>Locus ID:</b>	230972
<b>UniProt ID:</b>	<u>Q3U5C8</u>
<b>Cytogenetics:</b>	4 E2
<b>Gene Summary:</b>	Guanyl-nucleotide exchange factor of the RHOG GTPase stimulating the exchange of RHOG-associated GDP for GTP. May play a role in chemotactic cell migration by mediating the activation of RAC1 by EPHA2. May also activate CDC42 (By similarity).[UniProtKB/Swiss-Prot Function]