

## Product datasheet for **MC228016**

### Arhgef9 (NM\_001290384) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef9 (NM_001290384) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef9
Synonyms:	9630036L12Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228016 representing NM\_001290384  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAACCGGAGTTGGCATTAAAGGCTGGCGACGTCAAAAGTCTTGGATGCTTCCAACAAGGATT  
 GGTGGTGGGGCCAGATCGACGATGAGGAGGGATGGTTTCTGCCAGCTTTGTGAGGCTCTGGGTGAACCA  
 GGAGGATGGGGTGGAGGAAGGGCCAGTGATGTGCAAGATGGGCACCTGGACCCAACTCAGACTGCCTT  
 TGTCTGGGCCGGCCACTACAGAACCGGACCAGATGCGGGCCAATGTCATCAATGAGATCATGAGCACGG  
 AGCGCCATTACATCAAGCACCTCAAGGACATTTGCGAGGGCTACCTGAAGCAGTGCCGAAAGAGAAGGGA  
 CATGTTCACTGACGAGCAGCTGAAGGTCATCTTTGAAACATTGAAGACATATACAGATTTAGATGGGC  
 TTCGTGAGAGACCTGGAGAAGCAGTACAACAATGATGATCCCCACCTCAGTGAGATAGGACCCTGCTTCT  
 TAGAGCATCAAGATGGATTCTGGATATACTCTGAATATTGTAACAACCACCTGGATGCCTGCATGGAAT  
 CTCCAAGCTGATGAAGGACAGCCGCTATCAACACTTCTTTGAGGCTGCCGCTCTTGCAGCAGATGATC  
 GACATTGCTATTGATGGTTTTCTTTGACTCCAGTACAGAAGATCTGCAAATATCCCTTACAATTGGCCG  
 AGCTCCTAAAGTATACTGCCAAGATCACAGTGATTACAGATACGTTGCAGCTGCTTTGGCTGTCATGAG  
 AAATGTGACTCAGCAGATCAATGAACGCAAGCGACGTCTGGAGAATATTGACAAGATTGCGCAATGGCAG  
 GCCTCTGTCTAGACTGGGAGGGAGAGGACATCTTAGACAGGAGCTCGGAGCTGATCTACACTGGAGAGA  
 TGGCCTGGATCTACCAGCCCTATGGCCGCAACCAGCAGAGAGTCTTCTTCTGTTGACCACCAGATGGT  
 CCTCTGCAAGAAGGACCTAATCCGGAGAGACATCTATACTACAAGGGGCGCATTGACATGGATAAATAT  
 GAGGTAATTGACATCGAAGATGGCAGAGATGATGACTTTAATGTCAGCATGAAAAATGCTTTCAAGCTTC  
 ATAACAAGGAAACGGAAGAAGTGCATCTGTTCTTTGCCAAGAACTGGAGGAGAAAAATACGTTGGCTTAG  
 AGCTTTACAGAGAAGAGAGAAAAATGGTACAAGAAGATGAAAAAATGGCTTTGAGATTTCTGAAAAATCAG  
 AAGAGACAGGCTGCAATGACTGTGAGAAAAGCTTCTAAACAGAAAAGGTGTCAACTCTGCCGCTCAGTTC  
 CTCCTTCTACCCACCACACAGGACCCGTTAAACCAGGGCCAGTACCTGGTCCCCGATGGCATCGCTCA  
 GTCTCAAGTGTGAGTTCACTGAACCGAAACGCAGCCAGTACCATTCTGGCAAACTTCAAGTAGGTTA  
 ACCCCCTCAAAAAATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001290384
- Insert Size:** 1488 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:** [NM\\_001290384.1](#), [NP\\_001277313.1](#)

**RefSeq Size:** 4708 bp

**RefSeq ORF:** 1488 bp

**Locus ID:** 236915

**UniProt ID:** [Q3UTH8](#)

**Cytogenetics:** X C3

**Gene Summary:** Acts as guanine nucleotide exchange factor (GEF) for CDC42. Promotes formation of GPHN clusters (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an in-frame downstream start codon, compared to variant 1. The encoded isoform (b) has a shorter N-terminus than isoform a. Variants 2 and 3 encode the same isoform (b).