

Product datasheet for **MC228017**

Arhgef9 (NM_001290385) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef9 (NM_001290385) 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: >MC228017 representing NM_001290385
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCAACCGGGAGTTGGCATTAAAGGCTGGCGACGTCAAAAGTCTTGGATGCTTCCAACAAGGATT
 GGTGGTGGGGCCAGATCGACGATGAGGAGGGATGGTTTCTGCCAGCTTTGTGAGGCTCTGGGTGAACCA
 GGAGGATGGGGTGGAGGAAGGGCCAGTGATGTGCAGAATGGGCACCTGGACCCAACTCAGACTGCCTT
 TGTCTGGGCCGGCCACTACAGAACCGGGACCAGATGCGGGCCAATGTCATCAATGAGATCATGAGCACGG
 AGCGCCATTACATCAAGCACCTCAAGGACATTTGCGAGGGCTACCTGAAGCAGTGCCGAAAGAGAAGGGA
 CATGTTCACTGACGAGCAGTGAAGGTCATCTTTGAAACATTGAAGACATATACAGATTTAGATGGGC
 TTCGTGAGAGACCTGGAGAAGCAGTACAACAATGATGATCCCCACCTCAGTGAGATAGGACCCTGCTTCT
 TAGAGCATCAAGATGGATTCTGGATATACTCTGAATATTGTAACAACCACCTGGATGCCTGCATGGAAT
 CTCCAAGCTGATGAAGGACAGCCGCTATCAACACTTCTTTGAGGCTGCCGCTCTTGCAGCAGATGATC
 GACATTGCTATTGATGGTTTTCTTTGACTCCAGTACAGAAGATCTGCAAAATATCCCTTACAATTGGCCG
 AGCTCCTAAAGTATACTGCCAAGATCACAGTGATTACAGATACGTTGCAGCTGCTTTGGCTGTCATGAG
 AAATGTGACTCAGCAGATCAATGAACGCAAGCGACGTCTGGAGAATATTGACAAGATTGCGCAATGGCAG
 GCCTCTGTCTAGACTGGGAGGGAGAGGACATCTTAGACAGGAGCTCGGAGCTGATCTACACTGGAGAGA
 TGGCCTGGATCTACCAGCCCTATGGCCGCAACCAGCAGAGAGTCTTCTTCTGTTGACCACCAGATGGT
 CCTCTGCAAGAAGGACCTAATCCGGAGAGACATCTATACTACAAGGGGCGCATTGACATGGATAAATAT
 GAGGTAATTGACATCGAAGATGGCAGAGATGATGACTTTAATGTCAGCATGAAAAATGCTTTCAAGCTTC
 ATAACAAGGAAACGGAAGAAGTGCATCTGTTCTTTGCCAAGAACTGGAGGAGAAAAATACGTTGGCTTAG
 AGCTTTACAGAGAAGAGAGAAAAATGGTACAAGAAGATGAAAAAATGGCTTTGAGATTTCTGAAAAATCAG
 AAGAGACAGGCTGCAATGACTGTGAGAAAAAGCTTCTAAACAGAAAAGGTGTCAACTCGCCCGCTCAGTTC
 CTCCTTCTACCCACCACCACAGGACCCGTTAAACCAGGGCCAGTACCTGGTCCCGGATGGCATCGCTCA
 GTCTCAAGTGTGAGTTCACTGAACCGAAACGCAGCCAGTACCATTCTGGCAAACTTCAGTAGGTTA
 ACCCCCTCAAAAA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001290385
- 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_001290385.1](#), [NP_001277314.1](#)

RefSeq Size: 5532 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 (3) 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).