

Product datasheet for **MC217612**

Arhgef3 (NM_027871) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef3 (NM_027871) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef3
Synonyms:	1200004I24Rik; 9830169H03Rik; C76747; Xpln
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217612 representing NM_027871
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGTCGGAGCGCCCATGGTGTGGTGTGTTTTTTCTCCGTGCACAGCGGAAACGAAAACAGAGTT
CCCAGGATGAAGATGCTGTCAGCCTGTGCAGTCTTGACATAAGTGAACCTAGTAACAAAAGGGTCAAACC
CCTTCCAGAGTCACATCGCTAGCAAACCTCATTCCACCTGTGAAGACCACACATTAAAGCGCTTCAGC
CAGACCTTGCAGCGGTCCATCAGCTTCCGACGAGAGCCGCCCGACATCCTTGCCCCCGAGCTTGGT
CCAGAAATGCCACCTCCTCAAGCACAAAGCGGAGAGACAGCAAACGTGGAGTGAGACCTTCGATGTGTG
TGTCAATCAGGTGCTCACGGCCAAGGAGATCAAGAGACAGGAGCGATCTTTGAACTTTCTCAAGGTGAA
GAAGACTTGATAGAGGACTTGAATTAGCAAAAAGGCCCTACCACGACCCATGCTGAAACTCTCCATAA
TGACGGAACAGGAACTGAATCAGATTTTGGGACCCTGGACTCTCTAATTCCTCTCCATGAAGAGCTCT
CAGTCAGCTTCGAGATGTTCCGAAACCCGATGGCTCGACTGAGCACGTTGGTCCCATCCTCGTGGGCTGG
CTGCCCTGTCTCAGCTCCTACGACAGCTACTGCAGCAATCAAGTCGCCGCCAAAGCCCTGCTGGACCACA
AAAAGCAGGACCACAGAGTGCAGGACTTCTCCAGCGCTGTTAGAATCACCCCTCAGTCGCAAACTCGA
TCTCTGGAATTTCTTGATATTCGCCGGAGCCGGCTAGTGAAGTATCCTCTGCTCCTTCGAGAAATCCTG
AGGCATACACCAAATGATAACCCAGACCAGCAGCACCTGGAAGAAGCTATAAACATCATCCAGGGAATTG
TGGCAGAAATCAACACCAAGACTGGGGAATCGGAATGCCGCTATTACAAAGAGCGGCTCCTTTACCTGGA
AGAAGGCCAGAAAGATTCTGATTGACAGCTCAAGGGTCTGTGTTGTCATGGAGAGCTGAAAAATAAC
CGGGGTGTGAAACTCCATGTTTTCTGTCCAAGAAGTGTGGTATCACCCGAGCTGCTCACTCACAAACG
AGCAGCTGTCTATCAGTTGTACCGACAGCCCATCCCTGTGAAGGACCTCAGCTGGAAGACCTGCAGGA
TGGAGAAGTGGCGCTGGGTGGCTCCCTGCGCGGGCCTTCAGCAACAACGAGAGAGTTAAAAACTTCTTC
AGAGTCAGTTTTCAAAAATGGATCCCAAAGTCAGACCCACTCACTACAAGCCAACGACACCTTCAACAAAC
AGCAGTGGCTCAACTGTATCCGTCAGGCAAAAAGAACTGTTCTGTCTGCTGCCGGCCAGGCTGGCTTGT
TGACTCTGAGGGACTGGTCCAGGGTCCCGGCACTGAGAACAGGGAGCCACAGGGAGAAACAAAATTGAG
CAGATGGACCAATCGGACAGCGAGTCGGACTGCAGTATGGACACCAGTGAGGTGAGCCTTGAGTGTGAGC
GGATGGAACAGACAGACGCTTCTGTGCAACAGCAGGCCCGAGGAGAGTGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_027871

Insert Size: 1596 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).

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_027871.2](#), [NP_082147.1](#)

RefSeq Size: 3637 bp

RefSeq ORF: 1596 bp

Locus ID: 71704

UniProt ID: [Q91X46](#)

Cytogenetics: 14 16.09 cM

Gene Summary: Acts as guanine nucleotide exchange factor (GEF) for RhoA and RhoB GTPases.
[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) has multiple differences at its 5' end, compared to variant 1. These differences result in a distinct 5' UTR and cause translation initiation at a downstream start codon, compared to variant 1. The encoded protein (isoform 2) is shorter and has a distinct N-terminus, compared to isoform 1.