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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGTCGGAGCGCCCCATGGTGTGGTGCTGTTTTTTTCTCCGTGCACAGCGGAAACGAAAACAGAGTT
CCCAGGATGAAGATGCTGTCAGCCTGTGCAGTCTTGACATAAGTGAACCTAGTAACAAAAGGGTCAAACC
CCTTTCCAGAGTCACATCGCTAGCAAACCTCATTCCACCTGTGAAGACCACACCATTAAAGCGCTTCAGC
CAGACCTTGCAGCGGTCCATCAGCTTCCGCAGCGAGAGCCGCCCCGACATCCTTGCCCCCCGAGCTTGGT
CCAGAAATGCCACCTCCTCAAGCACAAAGCGGAGAGACAGCAAACTGTGGAGTGAGACCTTCGATGTGTG
TGTCAATCAGGTGCTCACGGCCAAGGAGATCAAGAGACAGGAGGCGATCTTTGAACTTTCTCAAGGTGAA
GAAGACTTGATAGAGGACTTGAAATTAGCAAAAAAGGCCTACCACGACCCCATGCTGAAACTCTCCATAA
TGACGGAACAGGAACTGAATCAGATTTTTGGGACCCTGGACTCTCTAATTCCTCTCCATGAAGAGCTCCT
CAGTCAGCTTCGAGATGTTCGGAAACCCGATGGCTCGACTGAGCACGTTGGTCCCATCCTCGTGGGCTGG
CTGCCCTGTCTCAGCTCCTACGACAGCTACTGCAGCAATCAAGTCGCCGCCAAAGCCCTGCTGGACCACA
AAAAGCAGGACCACAGAGTGCAGGACTTCCTCCAGCGCTGTTTAGAATCACCCTTCAGTCGCAAACTCGA
TCTCTGGAATTTCCTTGATATTCCCCGGAGCCGGCTAGTGAAGTATCCTCTGCTCCTTCGAGAAATCCTG
AGGCATACACCAAATGATAACCCAGACCAGCAGCACCTGGAAGAAGCTATAAACATCATCCAGGGAATTG
TGGCAGAAATCAACACCAAGACTGGGGAATCGGAATGCCGCTATTACAAAGAGCGGCTCCTTTACCTGGA
AGAAGGCCAGAAAGATTCTCTGATTGACAGCTCAAGGGTCCTGTGTTGTCATGGAGAGCTGAAAAATAAC
CGGGGTGTGAAACTCCATGTTTTCCTGTTCCAAGAAGTGCTGGTGATCACCCGAGCTGTCACTCACAACG
AGCAGCTCTGCTATCAGTTGTACCGACAGCCCATCCCTGTGAAGGACCTCACGCTGGAAGACCTGCAGGA
TGGAGAAGTGCGGCTGGGTGGCTCCCTGCGCGGGGCCTTCAGCAACAACGAGAGAGTTAAAAACTTCTTC
AGAGTCAGTTTCAAAAATGGATCCCAAAGTCAGACCCACTCACTACAAGCCAACGACACCTTCAACAAAC
AGCAGTGGCTCAACTGTATCCGTCAGGCAAAAGAAACTGTTCTGTCTGCTGCCGGCCAGGCTGGCTTGCT
TGACTCTGAGGGACTGGTCCAGGGTCCCGGCACTGAGAACAGGGAGCCACAGGGAGAAACAAAACTTGAG
CAGATGGACCAATCGGACAGCGAGTCGGACTGCAGTATGGACACCAGTGAGGTCAGCCTTGAGTGTGAGC
GGATGGAACAGACAGACGCTTCCTGTGCAAACAGCAGGCCCGAGGAGAGTGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

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).

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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.

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