

Product datasheet for MC224314

Arhgef10 (NM_172751) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arhgef10 (NM_172751) Mouse Untagged Clone
Tag: Tag Free
Symbol: Arhgef10
Synonyms: 6430549H08Rik; mKIAA0294
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224314 representing NM_172751
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAGCAGGGAGAGGCCTCACCTCTGTCTCAGAACATGAAGCGAAATGTGACACCAGCAACAACG
AAGAGGAGGGAGAACTGTTTGACTTCGACAGTGGAGATGAAGTCCCGAAGCGGATCGGCAAGTCCCGTC
TGCCGACGATAGGACGAGAGGTGCTGAAGCAGGAGGTGCAGACGAGAACACGTGCCCTGCAGGAAATGGA
ACTGGAGCTGAACCTGCCCCGAGGCAGAGCCTGCGAACTTGTGGTCCCCACAAAAGTGAACCCGTATT
CTGTCATCGACATCACGCCGCTGCAGGAAGACCAGCCGTCATCTCCAGACGCGAATACAGAGGAGGAAGG
CGTGGGGCTGCGTGTGCCAGTGGTTACTCTGTGCCTGTGCCCTGTGGCTATGCTGTCCCCTCCAACCTG
CCATTGCTGTGCCTGCCTACTCCAGTCTGTGCATCATCCGAGCCGAGTCTGTAGAGGAGGAAGAAGCAG
CAGAACTGTGGGAGATGGGCAGTGAATTCCTAAGCTCCGAGGACCTCCACACAGCAGTGAAGCAAGG
CAGCCAAGAAGGCAGTGCCTGGCCGATGGGCAGCCGACCCTGCCAACACAGCATGGATGGAAAATCCA
GAGGAAGCAATTTACGACGACGTTCCGAGGGAAAACCTCGGACTCTGAGCCAGATGAAATGATTTATGATG
ATGTGGGAACCGCGAAGAAGGTGAAACAGTCCCAGAGTACGGGTGGAGTCCAGCGAATTCGAAAG
CTATGAGGAGCCAAGCGACTCGGAGGGCAAGAACGGAATTCAGGTCCTTCTGCGCAGCAGTCATAAA
AAGCAACTCTCTCATGACCTAACCCGCTTTAAGGCGCACTGTGAGGAAAAGATGAGAGGCTTGGTGCCA
GTACGGTGGGAGCCATGGAGATTCAGCAGGCAAAGCAGAGGCAGGAGCGGAAGATGCAGAAGCTTATGAA
GGCAGCCAAGGAGGGCACCAGATGGGCTGGAGAAAACCAAAGCTGCTGTGAAGAGAGGCGGCTCCTTC
ATCAGGACCAGGTCCTTGGTCTCTCAAGATCACAGGTGTTATTTGAAGAAGAGCAGAATTTGTTTCATTG
ACGTGGACTGCAAGCACCCGAGGCTGTCTCACCCCAATGCCGAGGGCTTGTCTCAGCAGCAGGTTGT
GAGAAGATACATTCTGGGCTCCATTGTTGAGAGCGAGAAGAACTATGTAGATGCTCTCCGGAGATTTTG
GAGCAATATGAGAAGCCGCTGTCTGAGATGGAGCCCCGGCTCCTGAGTGACAGGAAGCTCAGGATGTTTT
TCTACCGCTCAAGGAGATCCTGCAAGTCACTCCATGTTCCAGATTGCGCTGGCCAGCCGCGTGTCCGA
GTGGGATGTCGTGAAACAATCGCGACGTTTTTGTGGCCTCGTTCTCCAAGTCCATGGTGTGGATGCT
TACAGCGAGTACGTGAACAACCTCAGCAGCGCCGTGGCTGTCCTCAAGAAGCAGTGTGCCACAAAGCCTG



CTTTCCTTGAGTTCCTAAAGCTGAGCCAGGATTCCAGTCCAGACCGAGTCACACTCCACAGCCTTATGAT
 GCGGCCCATCCAGAGGTTCCACAGTTCATCCTCTACTGCAGGACATGCTGAAGAACCCGCCAAAGGA
 CATCCTGACAGGCTGCCCTTCAGATGGCGCTGACGGAGCTCGAGACCCTGGCAGAGAAGCTAAACGAGA
 GAAAAAGAGATGCCGACCAGCGATGCGAAATCAAACAAATAGCAAAGCCATAAACGAGAGATACCTGAA
 CAAGCTCCTCAGCAGTGGAAACCGGTACCTCGTCCGGTCCGATGACGTCATCGAGACGGTTTACAACGAC
 CGGGGAGAAATCGTCAAGACCAAACAACGCCGGATCTTCATGCTGAATGACGTGCTCATGTGTGCCACCG
 CCAGTACGGAACTCACATGAAAGCCATGCCGTGATGAGCCAGAGGTACCTGCTCAAGTGGAGTGTCCC
 TCTAGGTCACGTGGATGTGATTCAGTACAATGGAGGCTCTGGCGCCGGGGAGCACTGTCCGACCCAGCT
 GCACACTCACCTGAGAGCCTGGCCGTGGTGCCAACGCGAAGCCACACAAAGTTTACATGGGGCCAGGGC
 AGCTGTACCAGGATCTGCAGAACCTACTGCACGACCTGAACGTTGTTGGCCAGATCTCGCAGCTGATAGG
 AAACCTCCGAGGGAGCTATCAGAACTTAAACCAGTCTGTAGCCCATGATTGGACGTGGGGCTTACAGCGG
 CTGATACTGAGGAAAGAAGATGCGATCAGAGCTGCCGACCCTGCCGGATCCAGTTACAGCTCCCGGGAA
 AGCAGGACAAGTCCGGGCGGCCACGTTCTTCACTGCTGTGTTCAATACGCTTACACCAGCCATCAAGGA
 GTCCTGGGTGAGCAGCTGCAGATGGCCAAAGTGGCCCTTGAGGAGGAGAACCATATGGGATGGTCTGT
 GTGGATGACGATGGCAACCTAGCCAAGAAGGAGACACACCCTCTCTGGTGGGACACATGCCTGTGATGG
 TGGCCAAGCAGCCAGAGTTCAAGATTGAATGTGCAGCTTATAACCTGAACCTTACTGAGCAATGAAAG
 TCAACCAGCCTCACCTCCACAGCCCGTGGCTTCTGTGGATTGGAAGCTGTAGCAACCAGATGGGTGAG
 GTCGCCATTGTCTCCTTCCAAGTTCACCCCAAGTCAATCGAGTGTTCATGTGGAATCACGCATCC
 TGTGTATGGTATACATCCCGCAGAGGAGTCAAAGCCCAAGAAACCACCAGAAACCAAGGATCCAGAAGC
 CACAGCCTCGAGAGCACCCATGTGCCACCATCTGCCTGGGCACAGAAGAGGGAAAGCATTTCATTTAC
 AAAAGCAGTCAGGGCTGCAAGAAGGTGAGGCTTCAAGCCTTCTATGCACCGGACAAGTCCACGGTCATGA
 GCTTGGCTGCTCCCAAGGCTGTATGCAGGCTGGTCAATGGTCCGTAGCCAGCTACACCAAGGC
 TCCAGATGGATCCTGGAACCTCGAAACCCAGCAAGTATCAAGTGGGTGCTCCTGCCAGTCAGAAGCCTT
 CTCTGGTGGAGGTTGCACTGTGGGCAGCCTCGGGAGGGCAGGTGTTATGGCCAGCGTGGAGACTCACA
 CTATAGAGAATCAGCTGGAGGCCACCAAGATGAAGGGATGGTCACTCTCCACATGGCTGTGGCTGGCGT
 TGGCATCTGGATTGCCTCACCTCGGGTCCACCTCCGCCTCTTCCACACAGAGACCTGAAGCACCTG
 CAGGATGTCAACATTGATGCCCCGTGCATAGCATGCTGCCAGGGCACCAGCGTCTATCTGTGACCAGCC
 TGCTCGTCTGCCACGGCTTGCTCATGGTCGGTACCAGCCTGGGTGTGTTGGTGGCCCTGCCAGTCCCTCG
 GCTTCAGGGTATCCCAAGTGCAGGGCGAGGCATGGTCTCCTACCATGCGCATAACGGGCCCGTTAAG
 TTCATCGTCTCAGCCACGGCTTCAAACAAGGACAGAGCCAGGGACAGCCACGTTCCGGTTCTGAGC
 TTCAGGATGAAGACCCCAAGGACTTGCTCTGCAGCGAGGAAGTCTTCTGCCCCGGGCCAGCCTGACAC
 CTACACATCCGTTTGGTTGGGAGACTCCCTAGGATTGCCAACTAAAAGAATGATCTGTCTCGTCTCG
 GGGTCACTGAACCTGTCCATGGCTCCAGTTCCTAGAGCACAGATCTGTGGACAGCAGTCTGTGTGACC
 TGCTGAGGGACCCAGTGCCTCCCAAGGAGCAGACCACAGGGCTTAGGCGAGCAAGAGCCAGTTACAGC
 GCTGGTGGTATGTGGGGCCAGGGCCACCGCGGGTGCACAGGAAGGCCAGGCAGCCTTCTCAGGAGGAC
 CTGTTTCTTCAGTGTGGTGTGGCAGATCCCCCTGCTGGGCATGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_172751
Insert Size: 4038 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_172751.3](#), [NP_766339.2](#)

RefSeq Size: 5541 bp

RefSeq ORF: 4038 bp

Locus ID: 234094

UniProt ID: [Q8C033](#)

Cytogenetics: 8 A1.1

Gene Summary: May play a role in developmental myelination of peripheral nerves.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform a).