

Product datasheet for MC224538

Arhgef40 (NM_001145921) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef40 (NM_001145921) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef40
Synonyms:	E130112L23Rik; Gm669; Solo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224538 representing NM_001145921 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAGCCTGAACAGTGGAGGACTGTGTGCAGAGCACGCTTGCTGCCTTGTAACCGCCCTTTGAAGCCA
CAGCCCCAACCTGTTGGGCCAGGTGTTCCAGGTGGTGGAGAGGACGTACCAGGAGGATGCGCTGAGGTA
CACGCTGGACTTCTGGTACCTGCTAAACACCTGCTTGCCAAGGTCCAGCAGGAAGCCTGTGCCAGTAT
AGTGGATTCTCTTCTCCACGAGGGCTGGCCACTCTGCTTGCATGAGCAGGTGGTAGTGCAGCTAGCGG
CCCTTCCCTGGCAGCTGCTGCGCCCTGGAGACTTCTACCTGCAGGTAGTGCCTTCAGCAGCCAGGCACC
CCGGCTGGCACTGAAATGCCTGGCCCCAGGAGGTGGGCGGTACAGGAGCTCCCACTGCCAGTGAAGCC
TGTGCCTACCTCTTACACCTGAGTGGCTACAAGGCATTAACAAGGACCGGCCAACAGGGCGCCTCAGCA
CCTGCCTTCTGTCCGCCCTCCGGGATCCAGCGGCTGCCCTGGGCTGAGCTCGTCTGCCACGATTGT
GCACAAAGAGGGCCTCATGGTGGGACATCAACCAAGTACATTGCCTCCAGAACTGCCCTCTGGACCTCCA
GGTCTTCCAGCTCTCCACTCCCTGAGGAGGTACTTGGTACCGGAGTCTGGGGATGGACACAACGCTC
CCGCAGAAGGTCCCGAGGGTGAATATGTGGAGCTGTTGGAGGTGACACTGCCTGTGAGGGGAAGCCCTGT
AGATGCTGAGGCCTCGGGCCTCTCCCGACCCGCACAGTACCGCCCGTAAGAGCACTGGAGGGAAGGGC
CGGCACCGGAGACACAGGGCGTGGATGAATCAGAAAGGCCTGGGATCTCGGGATCAGGATGGGACGCGGC
CGCTTGGTGAGGGAAGTAGCACCGGGGCTCTTCCGACTCACCTTCAGGGGCTGAGGCAGACCCAGATGC
CACCGCCCTCCAGGCATCTGAGCCCCGGCAGAGGCTCTCGGGGAAGCCCTGAATCCTGCCTCTGTCA
GGGAGGCTGTGGGAGGAGTGGGCCAGGGGCTGAAGGACCACCTGGTACCCCTCGAAGAACCGGCAAG
GAAACAGAAGAAAGAAGCGAGCTGCGGGCAGAGGCGCTGGAAGCCGGGAGGGGAGGGTACCTCACTCAG
CCCCAGGGACAAGAAGAGACCAGACAGCAGGAAGTCTTGTGCTGCTGCCCTCACCCAGTGAACAGGAA
CCTGCAGAATGCAGCCTGGTTAAGGAGAAAGAGGATTCTGGGAAGCAAGAGTCTGAATCAAAGAGGAAC
TCAAGCCAGCAGATGAAAAAGAGCCTGCACGCCAGAAGACTATGAGCCTCCAGAAGAGGAGATCAGAGA
GAGTGAGAAAGAGGAGTTGACCCCGAGGTACGGCAGGATCCACAGGTCCAGAGTGGTCCCATCTGAG



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CCCTCAACACAGCCCCTGGAGACTGTGCAGAATGTTAAAGGAGACAGCCTCCCAGAGGAACTCCCCAG
 TTTCTGTTTTGGATGACCCAGTTGTAGCTTGGGACTTGATGGCATCTGGATTCTTCGTTCTGACTGGAGG
 GGTAGATCAGACTGGGCGAGCTCTGCTGACAATCACGCCTCCACCTCCGTGCCTTCTGAGGAGTCTCA
 CCCTCCCAAGAGACACTGAGCACTGCTCTCCGTTACCTCCACTCACTGCTTAGGCCTGATCTGCAGTTAC
 TGGGGCTGACCATCTCTTACCTTCGCAAGGCACCTCCACTGCCTCCAGCACTTCTTCTGCCTTGAG
 TCAGCTTCAGGACTCAGGCGAGCCTCCGCTCATTACGCGGCTGGTGATCCTCATTATGAAGACCTCCA
 GCTGAACCTCTGTGGATTTAGGGAGCTGAGTTGCTGTGAGAGAAGGATCTGAAAAGAGTGCCCAAGCCAG
 AGGAGCTACAGTGGGACTTAGGAGGTACAGGGACCTCTCCCCAACCCTGGGCGAGAGATACATCAGGA
 AGTGCCAAGGCTATGCACCTTGCCAAGGCGTGTGACCTCCGTACGGCAGGCCATTGAGGAGCTAGAG
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 CTCGGCTGACAGCACTACAGAGGAACGGAGGAGCCATCTGATGCGCCTGCGCTCCGCCACAGCAGCAA
 GCTAGAGGGCCAGGCCAGCTGAGCTATACCAGGAGGTAGATGAGGCCATTACCAACTTGTGCGTCTG
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 TGTCTGGCCAGGAGAAGAGCAGCTGGCAAGCTTCTCCATGCCGGGAACTCACTGTGAGTCTTGAAGA
 GACAGAACTTCGATTAGGGCTTTAGCACAGAAGTGCAGGAGCGCTAGTCCAAGCCCGGAAGCTTTG
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 GCGGCCTCCACCGGGCCCTCAGGCTACAGCGCTTCTTCCAGCAGGCACACGAATGGGTAGATGAGGGCTC
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 GAACCCAGTGCAGGCACCTTCAAGAGATGCGAGCCCTGGCCCTGGACTTGGGCAGCCCCGAGCCCTTC
 GAGAGTGGGGCCGATGTCGGGCACGCTGCCAGGAGCTGGAAGAAGGATTGAGCAGCAGCTGGGAGAGGA
 GGCCAGTCTAGAAGCCACCGACGCTCGGGCAGACAGTGCCAGCAGCGCAGGGGCCAGCAGCGAGGCC
 CATAGCCCTTACCCAGCCTCAGTTCCTGCTGCTTCCAGCAGCCCTGGGCCACGGGACGCCCATCAC
 ATTGCTCTGACCCCATGTGGGAGGATTATGAGGAAGAAGGCTTGAAGTCCAGAAACAGATGG
 AAGACCCCAAGGCTGTGCTAATCCGAGGACTGGAGGTACCACTACTGAAGTGGTAGACAGGACATGT
 TCGCCCCGAGAACACGTACTATTGGGCCGGCTGGAGGGCCAGATGGACCCTGGGGAATAGGTACCCCTC
 GAATGGAACGCAACGAAGCATCAGCGCCAGCAGCGTCTAGTGTCTGAACTGATTGCTGTGAGCAGGA
 GTACGTAACACCCTGAATGAGCCAGTGCCGCTGCCTGGGCTGAGCTAACGCCTGAGCTTCGATGCACC
 TGGGCTGCAGCCCTGAGTGTCCGAGAGAGGCTTCGCAGCTTCCACGGGACACACTTCTACAAGAGCTTC
 AGGGCTGCGCCGCCACCCCTGCGCATTGGGGCTGCTTCTTCCGCTGAGGATCAGTTCAACCTCTA
 TGCACAGTTCGTGAAGCACAGGCATAAACTGGAGAGTGGTCTGGCTGCGCTACCCCTCGGTCAAGGGT
 TCCATGGAGAGCAGCCCTTGTGCTGCCCCGGGCCCTGCAGCAGCCACTGGAGCAGCTGGCTCGGTATGGAC
 AGCTCCTGGAGGAGCTCCTGAGGGAAGCCGGGCCCTGAGCTAAGCTCTGAACGCCAGGCCCTCAGGGCCGC
 TGTACAGTTGCTCCAGGAACAAGAGGCCCGAGGCAGAGATCTGCTTGTGTGGAAGCTGTTGAGGCTGT
 GAGATAGATCTAAAGGAACAGGGACAGCTCTTGATCGGGACCCCTTCACTGTCTCTGTGGCCGAAAA
 AGTGCCTCCGCCACGTCTTCTGTTTGAAGACCTGCTCTTATTACGAAGCTCAAGGGATCTGAAGGAGG
 ATCCGAGACCTTCGTTTACAAGCAGGCTTTCAAGACCGCTGACATGGGGCTGACAGAAAACATCGGGGAC
 AGTGGACTCTGTTTCAACTATGGTTTCGACGACGGCGTGCAAGAGAAGCATACAGTTGAGGCTACTT
 CGCCAGAGACCAAACTCAAGTGGACAAGTTCTATTGCCAGCTGCTGTGGAGACAGGCAGCCACAACAA
 GGAACCTCGAGTGCAGCAGATGGTTTCCATGGGCAATTGGGAATAAACCTTCTTGGACATTAAAGCCCTT
 GGGGAACGGACACTGAGTGCCCTGCTCACTGGAAGAGCCTCAGAAACACTTGATTCTTCTGGAGATGTGT
 CCCCAGGACCACGAAACAGCCCCAGCCTGCAGCCCCCAGCCCTGGGAGCAGTACTCCCGCTCTGACCAG
 TGGAGGGATCTTAGGGCTCTCTCGGCAGGCCTGGCTGAGAGGCATCAAGAGTCATTCCCAGCCCTGAGT
 GACCCACACGCCTCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001145921
Insert Size: 4431 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001145921.1</u> , <u>NP_001139393.1</u>
RefSeq Size:	5499 bp
RefSeq ORF:	4431 bp
Locus ID:	268739
UniProt ID:	<u>Q3UPH7</u>
Cytogenetics:	14 C2
Gene Summary:	May act as a guanine nucleotide exchange factor (GEF).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) has multiple differences in the 3' coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when compared to isoform 1.