

## Product datasheet for MC224509

### Arhgef40 (NM\_001145922) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arhgef40 (NM\_001145922) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Arhgef40  
**Synonyms:** E130112L23Rik; Gm669; Solo  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224509 representing NM\_001145922  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCTGAACCAGTGGAGGACTGTGTGCAGAGCACGCTTGTGCCTGTACCCGCCCTTTGAAGCCA  
 CAGCCCCAACCCCTGTTGGGCCAGGTGTTCCAGGTGGTGGAGAGGACGTACCAGGAGGATGCGCTGAGGTA  
 CACGCTGGACTTCTGGTACCTGCTAAACACCTGCTTGCCAAGGTCCAGCAGGAAGCCTGTGCCAGTAT  
 AGTGGATTCTCTTCTCCACGAGGGCTGGCCACTCTGCTTGATGAGCAGGTGGTGTAGCAGCTAGCGG  
 CCCTTCCCTGGCAGCTGCTGCGCCCTGGAGACTTCTACCTGCAGGTAGTGCCTTCAGCAGCCAGGCACC  
 CCGGCTGGCACTGAAATGCCTGGCCCCAGGAGGTGGGCGGTACAGGAGCTCCCAGTGCCAGTGAAGCC  
 TGTGCCTACCTCTTACACCTGAGTGGCTACAAGGCATTAACAAGGACCGGCCAACAGGGCGCCTCAGCA  
 CCTGCCTTCTGTCCGCCCTCCGGATCCAGCGGCTGCCCTGGGCTGAGCTCGTCTGCCACGATTTGT  
 GCACAAAGAGGGCCTCATGGTGGGACATCAACCAAGTACATTGCCTCCAGAACTGCCCTCTGGACCTCCA  
 GGTCTTCCAGCTCTCCACTCCCTGAGGAGTACTTGGTACCCGGAGTCCCTGGGGATGGACACAACGCTC  
 CCGCAGAAGTCCCAGGGTGAATATGTGGAGCTGTTGGAGGTGACACTGCCTGTGAGGGGAAGCCCTGT  
 AGATGCTGAGGCCTCGGGCTCTCCCGACCCGCACAGTACCCGCCGTAAAGACTGGAGGGAAGGGC  
 CGGCACCGGAGACACAGGGCTGGATGAATCAGAAAGGCCTGGGATCTCGGGATCAGGATGGGACCGGC  
 CGCCTGTTGAGGGAAGTAGCACCGGGCTCTTCCGACTCACCTCAGGGCTGAGGCAGACCCAGATGC  
 CACCGCCCTCCAGGCATCTGAGCCCCGGCAGAGGCTCTCGGGAAGCCCTGAATCCTGCCTCTGTCA  
 GGGGAGGCTGTGGGAGGAGTGGCCAGGGGCTGAAGGACCCTGGTACCCCTCGAAGAACCGGCAAAAG  
 GAAACAGAAGAAGAAGCGAGCTGCGGGCAGAGGCGTGAAGCCGGGAGGGGAGGGTACCTCACTCAG  
 CCCCAGGGACAAGAAGAGACCAGACAGCAGGAAGTCTTGTGAGTCTGCCCTCACCCAGTGAACAGGAA  
 CCTGCAGAATGCAGCCTGGTTAAGGAGAAAGAGGATTCTGGGAAGCAAGTCTGAATCAAAGAGGAAC  
 TCAAGCCAGCAGATGAAAAGAGCCTGCACGCCAGAAGACTATGAGCCTCCAGAAGAGGAGATCAGAGA  
 GAGTGAGAAAGAGGAGTTGACCCCGCAGTGTACGGCAGGATCCACAGGTCCAGAGTGGTTCCCATCTGAG  
 CCCTCAACACAGCCCCTGGAGACTGTGCAGAATGTTAAAGGAGACAGCCTCCAGAGGAACTCCCCAG



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TTTCTGTTTTGGATGACCCAGTTGTAGCTTGGGACTTGATGGCATCTGGATTCTTCGTTCTGACTGGAGG  
 GGTAGATCAGACTGGGCGAGCTCTGCTGACAATCACGCCTCCACCTCCGTGCCTTCTGAGGAGTCTCA  
 CCCTCCCAAGAGACACTGAGCACTGCTCTCCGTTACCTCCACTCACTGCTTAGGCCTGATCTGCAGTTAC  
 TGGGGCTGACCATCTCCTTGACCTTCGCAAGGCACCTCCACTGCCTCCAGCACTTCTTCTGCCTTGAG  
 TCAGCTTCAGGACTCAGGCGAGCCTCCGCTCATTACAGCGGCTGGTATCCTCATTATGAAGACCTCCA  
 AGTGAACTCTGTGGATTCAGGGAGCTGAGTTGCTGTAGAGAAGGATCTGAAAAGAGTGGCCAAGCCAG  
 AGGACTACAGTGGGACTTAGGAGGTACAGGGACCTCTCCCCAACCACTGGGCAGAGATACATCAGGA  
 AGTGGCAAGGCTATGCACCTTGTGCCAAGGCGTGTGACCTCCGTACGGCAGGCCATTGAGGAGCTAGAG  
 GGAACAGCAGAACCACAAAGAAGAGGAGGCCGCTGGGAATGCCTGAGCCTCTGCAAAAAGGTGCTGGCAGATC  
 CTCGGCTGACAGCACTACAGAGGAACGGAGGAGCCATCCTGATGCGCCTGCGCTCCGCCACAGCAGCAA  
 GCTAGAGGGCCAGGCCAGCTGAGCTATACCAGGAGGTAGATGAGGCCATTACCAACTTGTGCGTCTG  
 TCCAACCTACGAGTGCAGCAGCAGGAAGAACGGCAGCGCTGCGCAAGTCCAGCAGGTGTTGCAGTGGC  
 TGTCTGGCCAGGAGAAGAGCAGCTGGCAAGCTTCTCCATGCCGGGAACTCACTGTCAGTCTTGAAGA  
 GACAGAACTTCGATTCAGGGCTTTAGCACAGAAGTGCAGGAGCGCTAGTCCAAGCCCGGAAGCTTTG  
 GCTCTGGAGGAGACCTTACCTCCAGAAAGTTCTAGACATCTTGAACAACGGTTGGAGCAGGCTGAGA  
 GCGGCCTCCACCGGGCCCTCAGGCTACAGCGCTTCTTCCAGCAGGCACACGAATGGGTAGATGAGGGCTC  
 TGCTCGGCTGGCAGGAGCTGGGTCTGGTCTGGAAGCTCTGCTGGCAGCCCTAGCCCTGCGGAGGGCCCA  
 GAACCCAGTGCAGGCACCTTCCAAGAGATGCGAGCCCTGGCCCTGGACTTGGGCAGCCCCGAGCCCTTC  
 GAGAGTGGGGCCGATGTCGGGCACGCTGCCAGGAGCTGGAAGAAGGATTGAGCAGCAGCTGGGAGAGGA  
 GGCCAGTCTAGAAGCCACCGACGACGTCGGGCAGACAGTGCAGCAGCGCAGGGGCCAGCACGGAGCC  
 CATAGCCCTTACCCAGCCTCAGTTCCTGCTGCTTCCAGCAGCCCTGGGCCAGGGCAGCCCCATCAC  
 ATTGCTCTGACCCATGTGGGAGGATTATGAGGAAGAAGGCCTTGAAGTCCAGAAACAGATGG  
 AAGACCCCAAGGGCTGTGCTAATCCGAGGACTGGAGTCAACAGTACTGAAGTGTAGACAGGACATGT  
 TCGCCCCGAGAACACGTACTATTGGGCCGGCTGGAGGGCCAGATGGACCCTGGGGAATAGGTACCCCTC  
 GAATGGAACGCAACGAAGCATCAGCGCCAGCAGCGTCTAGTGTCTGAACTGATTGCCTGTGAGCAGGA  
 GTACGTAACCACCCTGAATGAGCCAGTGCCTGCTGGGCTGAGCTAACGCCTGAGCTTCGATGCACC  
 TGGGCTGCAGCCCTGAGTGTCCGAGAGAGGCTTCGAGCTTCCACGGGACACACTTCTACAAGAGCTTC  
 AGGGCTGCGCCGCCACCCCTGCGCATGGGGCTGCTTCTTCCGCATGGGGATCAGTTCAACCTCTA  
 TGCACAGTTCGTGAAGCACAGGCATAAACTGGAGAGTGGTCTGGCTGCGCTACCCCTCGGTCAAGGGT  
 TCCATGGAGAGCAGCCCTGCTTGCCTGGCCCTGCAGCAGCCACTGGAGCAGCTGGCTCGGTATGGAC  
 AGCTCCTGGAGGAGCTCCTGAGGGAAGCCGGCCCTGAGCTAAGCTCTGAACGCCAGGCCCTCAGGGCCG  
 TGTACAGTTGCTCCAGGAACAAGAGGCCGAGGCAGAGATCTGCTTGTGGAAGCTGTTGAGGCTGT  
 GAGATAGATCTAAAGGAACAGGGACAGCTTGCATCGGGACCCTTCTACTGTCTGTGGCCGAAAA  
 AGTGCCTCCGCCAGTCTTCTGTTTGGAGACCTGCTCTTATTACGAAGCTCAAGGGATCTGAAGGAGG  
 ATCCGAGACCTTCGTTTACAAGCAGGCTTCAAGACCGCTGACATGGGGCTGACAGAAAACATCGGGGAC  
 AGTGGACTCTGTTTGAAGTATGGTTTCGACGACGGCGTGAAGAGAAGCATACAGTTCAGGCTACTT  
 CGCCAGAGACAACTCAAGTGGACAAGTTCTATTGCCAGCTGCTGTGGAGACAGGCAGCCACAACAA  
 GGAACCTCGAGTGCAGCAGATGGTTTCCATGGGCATTGGGAATAAACCTTCTGAGCATTAAAGCCCTT  
 GGGGAACGGACACTGAGTGCCCTGCTCACTGGAAGAGCCTCAGAAACACTTGATTCTTCTGGAGATGTG  
 CCCCAGGACACGAAACAGCCCAAGCTGCAGCCCCAGCCCTGGGAGCAGTACTCCCGCTCTGACCAG  
 TGGAGGGATCTTAGGGCTCTCTCGCAGAGTATTCCCGAGCCCTGAGTGACCCACCACGCCTCTGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001145922  
**Insert Size:** 4410 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001145922.1, NP_001139394.1</u>
<b>RefSeq Size:</b>	5478 bp
<b>RefSeq ORF:</b>	4410 bp
<b>Locus ID:</b>	268739
<b>UniProt ID:</b>	<u>Q3UPH7</u>
<b>Cytogenetics:</b>	14 C2
<b>Gene Summary:</b>	May act as a guanine nucleotide exchange factor (GEF).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The resulting protein (isoform 3) is shorter when compared to isoform 1.