

## Product datasheet for MR220156

### Arhgef10l (NM\_001112722) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arhgef10l (NM\_001112722) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Arhgef10l  
**Synonyms:** 2810441C07Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR220156 representing NM\_001112722  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCTTCTCGAACCCTCTCCACAGCCTGCCATAGGAGCTCCCCTGGCTCCCAGCGCTCCAGGCCCT  
 CCCCCGAGGTGGAGGAGGACTCCGGAGAAGCCTTTGAGTTTGATGACAGTGATGAGGAGGAGACACCAG  
 CTCTGGCCTGGTTGTCCCTGGCCTCGCCCTGAGAGGGACACAGAGCCCTCGCTGATCTGCTTTGACT  
 GTCCCGGGCTCAGACCTGGACCCAGCAGCTGCACCACCCAGACAGAGGCACCCACTGTGGTCAGCAATG  
 GGGATGCGGTGGGCGCAGCGATCTCTGGGGTCCGGCGCTCCAGCTGGAAGCGGAAGAGCTCACGTGGAAT  
 TGACCGCTTCACTTTCCCTGCCCTGGAGGAAGATGTGATTTATGACGACGTCCCCTGTGAGAGCCCAGAC  
 GCCCATCAGCCCGGGGCGAGCGGGGCCTGTTTACGAGGATGTGCATCGTGCAGGAGCACCGCGTGAGA  
 CCGAGGACCTAGGCTGGAGCTCTAGTGAGTTTGAGAGCTACAGCGAGGACTCTGGGGAGGAGACCAACC  
 GGAGGCCGAGCCCAAGCACCAGGGTCTTCCAGCCCAAGATGACCCAGCTCATGAAGGCCGCAAG  
 AGCGGGACCAGGGATGGGCTGGAGAAGAAGATATGGGGCTCCTGGAGTTGGTGTGACAGACATCAACC  
 TCCCGCGCCAGAGCTGGGCCCCATGCCGATGGCTTGAGTCTCAGCAGTGGTCCGGAGACACATCCTA  
 GGCTCCATCGTGACAGCGAAGGACGCTACGTGGAGTCACTGAAGCGGATACTCCAGGATTACCGTAACC  
 CACTAATGGAGATGGAGCCCAAGGCGCTGAGCGCCCGCAAGTGTGAGGTGGTGTCTTCCGCGTGAAGGA  
 GATTCTACATTGCTCACTCCATGTTCCAGATCGCTCTGTCTCCCGCGTGGCCGAGTGGGACTCCACAGAG  
 AAGATTGGAGACCTTTTGTGGCTTCATTCTCCAAGTCCATGGTCTAGATGTATACAGCGACTATGTGA  
 ACAACTTCAACAAGCCATGTCCATCATCAAGAAGGCTGTCTCACAAGCCAGCGTTTCTTGAGTTTCT  
 CAAGCGGCGCAGGTGTGCAGTACGACCGAGTACCCTCTATGGTTGATGGTGAACCTGTTCCAGAGA  
 TTTCCACAGTTTATCCTCTACTCCAGGACATGCTGAAGAACAACCTCCCGGGGCCACCCTGACAGGTTGT  
 CGCTGCAGCTAGCCCTACGGAGCTGGAGACGCTGGCTGAGAAGCTGAACGAGCAGAAGCGGTTGGCCGA  
 CCAGGTGGCTGAGATCCAGCAGCTGACCAAGAGTGTGAGTACCGCAGCAGCCTCAACAAGCTGTTGACC  
 TCTGGCCAGCGCAGCTGCTTCTGTGTGAGACTGACTGAGACGGTGTATGGAGACCGAGGGCAGCTGA

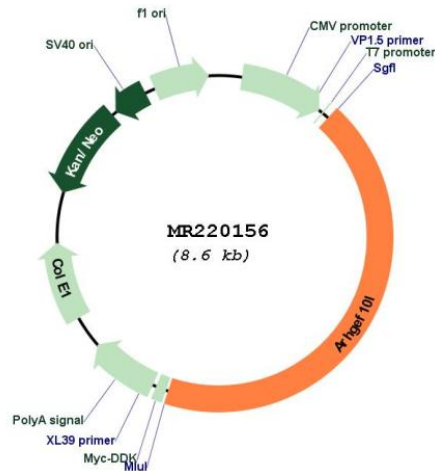


[View online >](#)

TCAAGTCCAAGGAGCGCAGGGTCTTCTGCTCAATGACATGCTGGTCTGCGCCAACATCAACTTCAAGCC  
CTCCAACACAGGGGCCAGCTAGAGATCAGCAGCCTGGTACCTCTGGGGCCAAGTACGTGGTGAAGTGG  
AACACAGCTCTGCCTCAGGTGCAGGTGGTAGAGGTGGGTGAGGATGGTGGCACCTACGACAAAGACAATC  
TGCTCATCCAGCATGCTGGAGCCAAGAAGGCCACTGCTGCAGGGCAGGCCAGAACAAGGTGTACCTGGG  
CCCCCACGCCTTCCAGGAGCTGCAGGACCTGCAGAAGGACCTGGCCGTGGTGGAGCAGATCACCCCTC  
CTCATCAGCACCTTGCATGGCATTACCAGAATCTGAACATGACTGTGGCCCAAGACTGGTGCCTGGCGC  
TGCAGAGGCTGATGCGGGTGAAGGAGGAGGATTCACTCGGCCAACAAGTGCCGCTGAGGCTGTGCT  
CCCCGGGAAGCCAGACAAGTCTGGCCGGCCATCAGTTTCATGGTGGTCTTCATCACCCGAACCCCTG  
AGCAAGATTTCTGGGTCAACAGATTACACTTGGCAAAGATTGGACTAAGGGAGGAGAACCAGCCAGGAT  
GGCTGTGTCCCGATGAGGACAAGAAAAGCAAAGCCCCGTTCTGGTGCCCATCCTGGCCTGCTGCGTCCC  
CGCTTTCTCCTCCCGACCCTCAGTCTGCAGTTGGGGCCTGGTCCACAGTCTGTAACTCTCCCTG  
CTGGGCTTCTCGGCGGTGAGCATTCCCTTCCACAGGGCTACCTTTGGTTGGCGGTGGTGGAGGGTGG  
CTGGTGGCAGGTGGAGATCTTCCCTGAACCGGCTTACCAGCGCACGGTCAAGTCTTCCAGTGGC  
GGCCCCGTGCTCTGCATAGAGTATATCCAGATCCGGAGGAGGAGGCTGAGGGTGCAGAGGAGAGCCGG  
GCAGCCACCGATCCCTCGGTACAGTGCATCCACTGTCTGCCTTGACTGCAGGATGGCAGCATCTAC  
TGATGGCAGTGTGGACACGGGTACCCAGTGCCTGGCCACCTGCAAGAGCCAGGCCCGCAGCCTGTGCT  
CTGCTGCGTACAGCCCTTCTACCTGCTTGGCCGCTCCAGGACGGGACCCTCGCTGCCTATCCTCGG  
ACCAGTGGTGACATTCCTGGGACCTGGAGAGCCCTCCCATGTGCATAACTGTGGGCCAGGGCCGATT  
GAACACTGCTGAGCCTGGAAGATGCTGCATGGCCAGCTGCGGGCCGAGGGTCACTGTACTAGATGCCGC  
CACTTTGCAAACCTCAGCAAAGCTTCGAGGCGCACCCAGGATGAGGCGGTGAGTGTCACTCACATGGTAAA  
GCCGGCAGCGGTGTCTGGATGGCCTTCTCCTCTGGCTCTCCATCCGCTCTTTCACACGGAGACTCTGG  
AGCACCTTCAGGAGATCAACATCGCCACCAGGACCACCTTCTCCTGCCAGGCCAAAAGCACCTATGTGT  
CACCAGCCTCCTCATCTGCCAGGTCTGCTCTGGGTAGGCACTGACCAGGGTGTCAATTGCTCTGTTGCT  
GTACCCGACTGGAGGGCATCCCCAAGATCACAGGAAAGGCATGGTGTCTCTCAATGGTCACTGTGGAC  
CTGTGGCTTCTGGCTGTGGCCATGAGCATCCTGGCCCTGACATCCTGCGGAGTGACCAGGAAGAGGC  
CGAGGGACCGCAGGCCGAGGAGGACAAGCCAGACGGCAGGCTCATGAAACCGTGCCTGGGCCTGACAGC  
CACACAGCTCGGGAGCTGACCCGCAAGAAAGGCATCCTGCTCCAATACCGCTACGCTCCACGGCCACC  
TCCCCGGGCCCTGTTGTCTGTGCGGGAGCCAGCACCTGCCGATGGCTCGGCTCTGGAACACAGTGAGGA  
GGACGGGTCCATCTACGAGATGGCCGATGACCCTGACGCTCTGGGTCCGGAGCCGGCCCTGTGCCGTGAT  
GCCACCAGCAAGGAGATCTGCTCTGTGGCTATCATCTCTGGTGGACAAGGCTACCGCCATTCGGCGGTG  
CTCCAGGTGGCTGAGTGGCGGGCGGCCCTGTCAGCGAGACAGACAGCACACTTCTCATCTGGCAGGT  
GCCCTTGCTCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Plasmid Map:**


**ACCN:** NM\_001112722

**ORF Size:** 3723 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001112722.1](#), [NP\\_001106193.1](#)

**RefSeq Size:** 4450 bp

**RefSeq ORF:** 3726 bp

**Locus ID:** 72754

**UniProt ID:** [A2AWP8](#)

**Cytogenetics:** 4 D3

**MW:** 135.8 kDa

**Gene Summary:** Acts as guanine nucleotide exchange factor (GEF) for RHOA, RHOB and RHOC.  
[UniProtKB/Swiss-Prot Function]