

Product datasheet for MR231750

Arhgef10l (NM_001290803) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Arhgef10l (NM_001290803) 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: >MR231750 representing NM_001290803
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTTCCTCGAACCCTCTCCACAGCCTGCCATAGGAGCTCCCCTGGCTCCCAGCGCTCCAGGCCCT
 CCCCCGAGGTGGAGGAGGACTCCGGAGAAGCCTTTGAGTTTGATGACAGTGATGAGGAGGAGACACCAG
 CTCTGGCCTGGTTGTCCCTGGCCTCGCCCTGAGAGGGACACAGAGCCCTCGCTGATCTGCTTTGACT
 GTCCCGGGCTCAGACCTGGACCCAGCAGCTGCACCACCCAGACAGAGGCCACCCACTGTGGTCAGCAATG
 GGGATGCGGTGGGCGCAGCGATCTCTGGGGTCCGGCGCTCCAGCTGGAAGCGGAAGAGCTCACGTCGAAT
 TGACCGCTTCACTTTCCCTGCCCTGGAGGAAGATGTGATTTATGACGACGCTCCCCTGTGAGAGCCCAGAC
 GCCCATCAGCCCGGGGCCGAGCGGGCCTCGTTTACGAGGATGTGCATCGTGCAGGAGCACCGCGTGAGA
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 CTGGAGACGCTGGCTGAGAAGCTGAACGAGCAGAAGCGGTTGGCCGACCAGGTGGCTGAGATCCAGCAGC



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TGACCAAGAGTGTCAAGTACCGCAGCAGCCTCAACAAGCTGTTGACCTCTGGCCAGCGGCAGCTGCTTCT
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ACAAGCCAGAGCGGCAGGCTCATGAAACCGTGCCTGGCCTGACAGCCACACAGCTCGGGAGCTGACCCG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >MR231750 representing NM_001290803
 Red=Cloning site Green=Tags(s)

MASSNPPQPAIGAPLAPSAPGPSPEVEEDSGEAFEFDDSDDEEDTSSGLVVPGLAPERDTEPSLICFDT
 VPGSDLPAAPPQTEAPT VVSNGDAVGAATISGVRSSWKRKSSRRIDRF TFPAL EEDVIYDDVPCE
 AHQPGAERGLVYEDVHRAGAPRETE DLGWSSSEFESYSEDSGEEKPEAEPTKHRGSFQPKLSPDL
 ERYVTRKRDILALRVGGRDMQELKLCDCCKMTQLMKAASKGTRDGLKTRMAVMRKVSFLHRKDVLDG
 SEEDMGLLEVGVTDIKPPAPELGPMPDGLSPQVVRHILGSIVQSEGSYVESLKRILQDYRNPLMEMEPK
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 LETLAEKLNQKRLADQVAEIQQLTKSVSDRSSLNKL L TSGQRQLLLCETL TETVYDGRGQLIKSKERRV
 FLLNDMLVCANINFKPSNHRGQLEISSLVPLGPKYVVKWNTALPQVQVVEVGQDGGTYDKDNL LIQHAGA
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 EEEIHSANKCRLRLLLPKPKD KSGRPI SFMVVFI TPNPLSKI SWVNRHLAKIGLREENQPGWLC PDEDK
 KSKAPFWCPI LACVPAFSSRTL SLQLGGLVHSPVNSPLLGFSAVSTSLPQGYLWVGGGQEGAGGQVEIF
 SLNRPSRPTVKSFPVAAPVLCIEYIPDPEEEAEGAEESRAATDPSVTVHPTVCLGLQDGSILLYGSVDTG
 TQCLATCKSPGPQVLC LRHSPFYLLAGLQDGT LAAYPRTSGDIPWDL E SPPMCITVGPPIRTLLSLED
 AAWASCGPRVTVLD AATLQTQQSFEAHQDEAVSVTHMVKAGSGVWMAFSSGSSIRLFHTETLEHLQEI
 NIATRTTFLLPGQKHL CVTSL LICQGLLWGTDQGVIVLLPVPRL EGIPKITGKGMVSLNGHCGPVAFLAVA
 MSILAPDILRSDQEEAEGPQAEEDKPDGQAHETVPGPDSHTAREL TRKKGILLQYRLRSTAHLPGLLSV
 REPAPADGSALEHSEEDGSIYEMADDPDVWVRSRRCARDAHRKEICSVAIISGGQGYRHFGGAPGGLSGR
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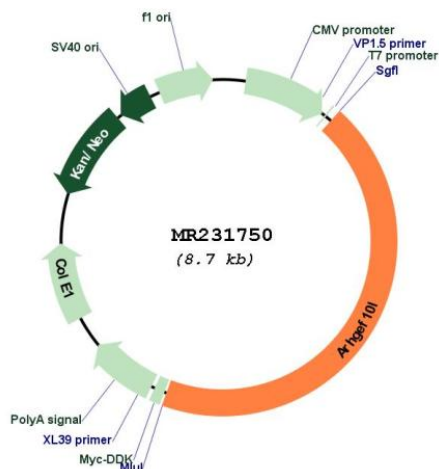
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290803

ORF Size: 3840 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_001290803.1](#), [NP_001277732.1](#)

RefSeq Size: 4549 bp

RefSeq ORF: 3843 bp

Locus ID: 72754

UniProt ID: [A2AWP8](#)

Cytogenetics: 4 D3

MW: 140.4 kDa

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