

Product datasheet for **MG220156**

Arhgef10l (NM_001112722) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef10l (NM_001112722) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arhgef10l
Synonyms:	2810441C07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220156 representing NM_001112722 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCCTCGAACCTCCTCCACAGCCTGCCATAGGAGCTCCCTGGCTCCCAGCGCTCCAGGCCCT
CCCCGAGGTGGAGGAGGACTCCGGAGAAGCCTTTGAGTTTGTGACAGTGATGAGGAGGAGACACCAG
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GTCCCGGGCTCAGACCTGGACCCAGCAGCTGCACCACCCAGACAGAGGCCACCCACTGTGGTCAGCAATG
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TGACCGCTTCACTTTCCCTGCCCTGGAGGAAGATGTGATTTATGACGACGTCCTCCGTGAGAGCCAGAC
GCCATCAGCCCGGGCCGAGCGGGCCTCGTTTACGAGGATGTGCATCGTGCAGGAGCACCGCGTGAGA
CCGAGGACCTAGGCTGGAGCTCTAGTGAGTTTGTAGAGCTACAGCGAGGACTCTGGGGAGGAGACAAACC
GGAGGCCGAGCCACTAAGCACCAGGGTCTTCCAGCCCAAGATGACCCAGCTCATGAAGGCCGCAAG
AGCGGGACAGGGATGGGCTGGAGAAGACCCGGATGGCCGTATGCGAAAAGTCTCTTTTGCATAGGA
AAGATGTCCTCGGTGACTCAGAAGAAGAAGATATGGGGTCTCTGGAGTTGGTGTGACAGACATCAAACC
TCCCGCCAGAGCTGGGCCCATGCCGGATGGCTTGTGCTCAGCAGGTGGTCCGGAGACACATCCTA
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ACAACCTCACCAACGCCATGTCCATCATCAAGAAGGCCTGTCTACCAAGCCAGCGTTCTTGAGTTTCT
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CGTGCAGCTAGCCCTCACGGAGCTGGAGACGCTGGCTGAGAAGCTGAACGAGCAGAAGCGTTGGCCGA
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TCTGGCCAGCGGCAGCTGCTTCTGTGTGAGACTGACTGAGACGGTGTATGGAGACCGAGGGCAGCTGA
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CTCCAGGTGGCCTGAGTGGCGGGCGGCCCTGTCAGCGAGACAGACAGCACACTTCTCATCTGGCAGGT
GCCCTTGCTCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >MG220156 representing NM_001112722
 Red=Cloning site Green=Tags(s)

MASSNPPQPAGAPLAPSAPGPSPEVEEDSGEAFEFDDSDDEEDTSSGLVVPGLAPERDTEPSLICFDT
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 LISTLHGTYQNLNMTVAQDWCLALQRLMRVKEE IHSANKCRLRLLLPGKPKSGRPI SFMVVFITPNPL
 SKISWVNRHLAKIGLREENQPGWLCPDEDKSKAPFWCPILACCVPAFSSRTLSQLGGLVHSPVNSPL
 LGFSAVSTSLPQGYLWVGGGQEGAGGQVEIFSLNRPSPRTVK SFPVAAPVLCIEYIPDPEEEAEGAEESR
 AATDPSVTVHPTVCLGLQDGSILLYGSVDGTQCLATCKSPGPQPVLC LRHSPFYLLAGLQDGLTAA YPR
 TSGDIPWDLESPMCITYGPGPIR TLLSLEDAAWASCGRVTVLDAATLQTQQSFEAHQDEAVSVTHMVK
 AGSGVWMAFSSGSSIRLFHTETLEHLQEINIATR TFFLLPGQKHLCVTSLLICQGLLWVGTDQGVIVLLP
 VPRLEGIPKITGKGMVSLNGHC GPVAVFLAVAMSI LAPDILRSDQEEAEGPQAEEDKPDGGAHETVPGPDS
 HTARELTRKKGILLQYRLRSTAHLPGPLL SVREPAPADGSALEHSEEDGSIYEMADDPDVVWRSRPCARD
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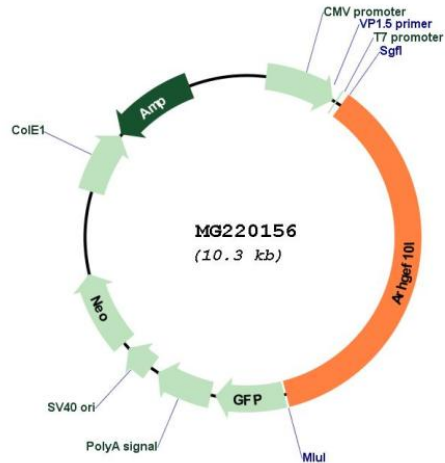
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



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

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