

Product datasheet for **MG211634**

Arhgef10 (BC059212) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Arhgef10 (BC059212) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Arhgef10 |
| Synonyms: | 6430549H08Rik; mKIAA0294 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG211634 representing BC059212 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAAATCCAGAGGAAGCAATTTACGACGACGTTCCGAGGGAAAACCGACTCTGAGCCAGATGAAA
TGATTTATGATGATGTGGAGAACGGCGAAGAAGGTGAAAACAGCTCCCCAGAGTACGGGTGGAGTCCAG
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GTGTTATTTTGAAGAAGAGCAGAATTTGTTCAATTGACGTGGACTGCAAGCACCCGGAGGCTGCCTCACC
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AGTCCAGACCGAGTCACACTCCACAGCCTTATGATGCGGCCATCCAGAGGTTCCACAGTTCATCCTCC
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ATGAGCCAGAGGTACCTGCTCAAGTGGAGTGTCCCTTAGGTCACGTGGATGTGATTCAGTACAATGGAG
GCTCTGGCGCCGGGAGCACTGTCCGACCACGCTGCACACTCACCTGAGAGCCTGGCCGTGGTGGCCAA
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CTGAACGTTGTTGGCCAGATCTCGCAGCTGATAGGAAACCTCCGAGGGAGCTATCAGAACTAAACCAGT
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TGACAGGAAGGCCAGGCAGCCTTCTCAGGAGGACCTGGTTTCTCAGTGTGGTGGCAGATCCCCCT
GCTGGGCATG
    
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211634 representing BC059212
 Red=Cloning site Green=Tags(s)

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MENPEEAIYDDVPRENSDSEPEDEMIYDDVENGEEGNSSPEYGWSSSEFESYEEPSDSEGKNGIPRSFLR
SSHKKQMQLMKAKEGTDGLEKTKAAVKRGGSFIRTRSLVSDHRCYFEEEQNLFIDVDCKHPEAVLT
PMPEGLSQQVVRRYILGSIVESEKNYVDALRRILEQYKPLSEMEPRLLSDRKLRMVFYRVKEILQCHS
MFQIALASRVSEWDVVETIGDVFVASFVSKSMVLDAYSEYVNNFSTAVAVLKKTCATKPAFLFLKLSQDS
SPDRVTLHSLMMRPIQRFPPQFILLQLDMLKNTAKGHPDRLPLQMALTELETLAEKLNERRKRDADQRCEIK
QIAKAINERYLNKLLSSGNRYLVRSDDVIETVYNDRGEIVKTKQRRIFMLNDVLMCATASSRNSHESHAV
MSQRYLLKWSVPLGHVDVIQYNGGSGAGEHCRHHAHSPESLAVVANAKPHKVYMGPGQLYQDLQNLHHD
LNVVQGISQLIGNLRGSYQNLNQSVAHDWTSGLQRLILRKEDAIRAADRCRIQLQLPGKQDKSGRPTFFT
AVFNTLTPAIKESWVSSLQMAKLALEENHMWFCVDDDDGNLAKKETHPLLVGHMPPVMVAKQPEFKIECA
AYNPEPYLSNESQPASPSTARGFLWIGSNCNMGQVAIVSFQGSNPKVIECFNVESRILCMVYIPAEESK
PQETETTKDPEATASRAPHVPTICLGTEEGSISYKSSQGCCKVRLQHFYAPDKSTVMSLACSPQGLYAG
LVNGSVASYTKAPDGSWNSEPQQVIKLVLPVRSLLLVEGALWAASGGQVFMASVETHTIENQLEAHQDE
GMVISHMAVAGVGIWIAFTSGSTLRLFHTETLKHLLQDVNIDAPVHSMPLGHQRLSVTSLLVCHGLLMVGT
SLGVVVLPVPRLLQGIKPKVTGRGMVSYHAHNGPVKFIVSATAFQNKDRARDSPRSGSELQDEDPKDLLCS
EEGSPCPGQPDITYSVWLGDLSGLPTQKNDLSSSSGSLNLSHGSSSLEHRSVDSSLCDLLRDPASAPRSR
PQGSRRARASSALVVCGGQGHRRVHRKARQPSQEDLVSSVMVWQIPLLGM
    
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TRTRPLE - GFP Tag - V

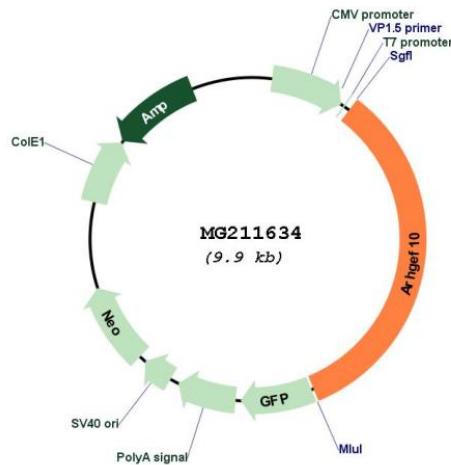
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC059212

ORF Size: 3300 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.

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| 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: | <ol style="list-style-type: none">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: | <u>BC059212.1</u> |
| RefSeq Size: | 4065 bp |
| RefSeq ORF: | 3302 bp |
| Locus ID: | 234094 |
| Cytogenetics: | 8 A1.1 |
| Gene Summary: | May play a role in developmental myelination of peripheral nerves.[UniProtKB/Swiss-Prot Function] |