

Product datasheet for **MG210728**

Arhgef19 (NM_172520) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef19 (NM_172520) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arhgef19
Synonyms:	6030432F23; 6430573B13Rik; WGEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG210728 representing NM_172520
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTGTGGGCCACCTGCAACCTCCAGCCTCACTTGCTGGACCACCTGGCACCCCGCTGCCCCAG
 TAGCTGTGTGCCAGCAGGAGAGCCTGTCTTCGTGGAGCTGCCTCCGAGCCGACTGTGTGGATCTCTT
 TCCATTGCTCCAGAGGAGCTGCAAGCTCCCGGTAGCCGCTGGTCCCTGGCAACCCCTGCCCTCTCCAA
 GGACTGTTATGGCCGACGTCCCCAGGAGGCCAGATACCCATATCGCCTCCACCAGTGGAGGAATGAGAC
 CCGGCAGGGCTGGCAGCTGGCCTCACTGTCTGGTGGCCAGCCCCAACTCTGGTGAACCGTGGAGTTC
 TCAGCACATGCAGCCCCAACGCAGGGCCAGCCACAGTGGCTCAGAGAAGTCAGCCTGGCGCAAGATGCAG
 GTGTATCATAACGAAGAGGCCACCGGCACCGAGACCCCTACGGCCCTTCTGGAGACTGGCCAGGCTGCGC
 AAGAGCAGGCTCTGTGTCTCTAGAGCCCGGGCCAGGAGCTTCTGGGAACGCCAGAGGGGCCCTTGA
 GGCACCGAGCGAAGGCTTTCTCGGCCTCAGAGCTGATGACTAGGCTGCATTCTCTCGCCTTGGGG
 CGCAGCACTGCCACCAGGTTCTGACCTCGGGCTCAGGTGCTGGAGCCATCCGGGAAGGAACTGCCCG
 TGAGGGAATCCCGAAGAGCCGAGACAAGGGCGGACAGTGTGTGCTTCCAGGACCCGTCGATCTAAACGA
 GGTCCACGGTGGTCTGGTGAACCCAGGCTGGACACGCAAGACAAGCCGACTCAGGATCCAGCAGCGCC
 ACTGAGAGGCGCCAGTCCCGTTCCTCCTTAATTCTGTCTCTACCAGGAGTACAGCGACTGGCCAGCG
 CGCGCGAGTTGCGGGCGCAGCAGCTGAGGAGGAGGGCCCCGGGGACGGAGCGGAGGGCGCGGAGGAGGG
 GCCCGGGCCACCGCGCCAACTCTCCCCGAGCAGCTTTTCCGCGCAACGCTCGACGCGGGGCTCC
 ACCTTCTCGCTGTGGCAGGACATCCCCGACGTGCGCGCAGTGGCGTCTGGCCACGCTGAGCCTGCGCG
 AGTCAAAGCTGCAGGAGGCCAAATTTGAGCTGATTACCTCGGAGGCCCTCTACATCCATAGCCTGTGCGT
 GGCGGTGGGTCACTTCTTAGGTTCCGTGGAGCTGAGCGAGTGTCTGGGGACTCAGGACAAGCAAGTGGCTA
 TTTTCAAAGCTGCCCGAGGTCAAGAGCACAGTGAAGGTTTCTTACGACCTGGAGCAGCGTCTAGAGG
 CCGATGTGCTGCGCTTACGCTGTGCGATGTGGTTCTACACCATTGCCCGCATTCCGCCGAGTCTACCT
 GCCTTACGTCACCAACCAGGCTACCAGGAGCGCACCTACCAGCGCTGCTCCTAGAGAACCCCAAGTTC
 CCCGGCATCCTGGCTCGCTAGAGGAGTCTCCTGTGTGCCAGCGGCTGCCTCTCACCTCCTTCTCATCT
 TACCGTCCAGAGGTTACCCGCTCAAGATGCTGGTAGAGAACATTTTGAAGCGGACAGCACCGGGCTC
 CCAAGATGAGGACATGGCCACCAAGGCTTACGCGCTCTAAAGGAGCTGGTGCAGGAGTGAACCGGAGC
 GTGAGTCCATGAAGCGGACGGAGAACTAATTCACCTAAGCAAGAAGATCCATTTTGAAGGCAAGATCT
 TCCCGCTGATCTACAGGCCCGCTGGCTGGTCCGGCACGGGGAGCTGGTGGAGTTGGCCCCCTGCCCGC
 CGCACCGCCAGCCAACTGAAGCTGTCCAGCAAGGCCGTGACCTTACCTCTTCAATGACTGCCTGCTG
 CTGTCCCAGGGAAGGAGCTCGGGAAGTTTGGCGTTTTTGTCCATGCCAACATGGCTGAGCTACAGGTTT
 GAGACCTCAGCCTGAAGCTCCAGGGCATCCAGGCCATGTGTTCTGCTCAGGCTGCTGCACGGGCAGCG
 CGCCAGGCACCAGCTGCTGCTGAGAGCACGGACCGAAAGTGAGAAGCAACGGTGGATTTACGCTTGAGA
 CCATCCAGCCCCAGGAGGACAAGGAGATCACATGTGATGGGGAAGACCGACCCAGGTCAGTGTGTGA
 GGACCTACAAGGCCCTGCAGCCAGATGAACTCACCTTGAGAAGACAGACATCCTGGCAGTGAAGACCAG
 GACCAGCGATGGCTGGCTGGAGGGCGTGGCCTGGCCGATGGTGAAGAGGATGGGTGCCTCAGGCCAT
 GTGGTGGAGATCAGCAGCCTCAGCGCTCGACTGCGCAACCTCAGAGAGTACAAGAGGGTCTCCAACGCCA
 GCAGCAAGCTGGGGACCCACCTGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210728 representing NM_172520
 Red=Cloning site Green=Tags(s)

```

MDCGPPATLQPHLAGPPGTARRPVAVCQQEESLFSVELPPSRLCVDLFPIAPEELQAPGSRWSLATPAPLQ
GLLWPTSPGGPDTHIASTSGGMRPGRAGSWPHCPGAQPPTLVEPWSSQHMQPQRRASHSGSEKSAWRKMQ
VYHNEEATGTETPTGLETGQAAQEALCALEPGPQELSGNARGGLEAPERRRFSASELMTRLHSSLRLG
RSTATRVLTSGSGAGAIREGKLPVRESRRAETRADSVSLPGPVDLNEVHGGLVEPRLDTQDKPTQDPSSA
TERRQSRFLLNSVLYQEYSDVASARELRRQQREEEGPGDGAEGAEEGPGPPRANLSPSSSFRAQRSTRGS
TFSLWQDIPDVRGSGVLATLSLRDCKLQEAKFELITSEASYIHLSVAVGHFLGVELSECLGTQDKQWL
FSKLPEVKSTSERFLHDLEQRLEADVLRFSVCDVVLHHCAPFRRVYLPYVTNQAYQERTYQRLLENPKF
PGILARLEESPVQRLPLTSFLILPFQVTRKMLVENILKRTAPGSQDEDMATKAFSALKELVQECNAS
VQSMKRTEELIHL SKKIHFEKGIFPLISQARWLVRHGELVELAPLPAAPPAKLLKSSKAVYLHLFNDCLL
LSRRKELGKFAVFVHANMAELQVRDLSLKLQGI PGHVFLLRLLHGQRARHQLLLRARTSEKQRWISALR
PSSPQEDKEITCDGEDRPQVQCVR TYKALQPDEL TLEKTDILAVKTRTSDGWLEGVRLADGEKGVWPQAH
VVEISSLSARLRNLREYKRVSNA SSKLGDPPA
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



- ACCN:** NM_172520
- ORF Size:** 2406 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_172520.3](#)

RefSeq Size: 3397 bp

RefSeq ORF: 2409 bp

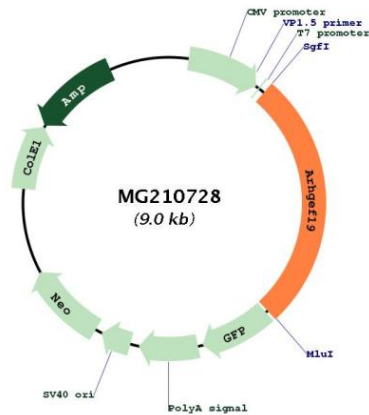
Locus ID: 213649

UniProt ID: [Q8BWA8](#)

Cytogenetics: 4 D3

Gene Summary: Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210728