

Product datasheet for **MR210728**

Arhgef19 (NM_172520) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef19 (NM_172520) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgef19
Synonyms:	6030432F23; 6430573B13Rik; WGEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210728 representing NM_172520
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTGTGGGCCACCTGCAACCTCCAGCCTCACTTGCTGGACCACCTGGCACCCCGCTGCCCCAG
 TAGCTGTGTGCCAGCAGGAGAGCCTGTCTTCGTGGAGCTGCCTCCGAGCCGACTGTGTGGATCTCTT
 TCCATTGCTCCAGAGGAGCTGCAAGCTCCCGGTAGCCGCTGGTCCCTGGCAACCCCTGCCCTCTCCAA
 GGACTGTTATGGCCGACGTCCCCAGGAGGCCAGATACCCATATCGCCTCCACCAGTGGAGGAATGAGAC
 CCGGCAGGGCTGGCAGCTGGCCTCACTGTCTGGTGGCCAGCCCCAACTCTGGTGAACCGTGGAGTTC
 TCAGCACATGCAGCCCCAACGCAGGGCCAGCCACAGTGGCTCAGAGAAGTCAGCCTGGCGCAAGATGCAG
 GTGTATCATAACGAAGAGGCCACCGGCACCGAGACCCCTACGGCCCTTCTGGAGACTGGCCAGGCTGCGC
 AAGAGCAGGCTCTGTGTCTCTAGAGCCCGGGCCAGGAGCTTCTGGGAACGCCAGAGGGGGCTTGA
 GGCACCGAGCGAAGGCTTTCTCGGCCTCAGAGCTGATGACTAGGCTGCATTCTCTCGCTTGGGG
 CGCAGCACTGCCACCAGGTTCTGACCTCGGGCTCAGGTGCTGGAGCCATCCGGGAAGGAACTGCCCG
 TGAGGGAATCCCGAAGAGCCGAGACAAGGGCGGACAGTGTGTGCTTCCAGGACCCGTCGATCTAAACGA
 GGTCCACGGTGGTCTGGTGAACCCAGGCTGGACACGCAAGACAAGCCGACTCAGGATCCAGCAGCGCC
 ACTGAGAGGCGCCAGTCCCGTTCCTCCTTAATTCTGTCTCTACCAGGAGTACAGCGACTGGCCAGCG
 CGCGCGAGTTGCGGCGGACGAGCGTGAGGAGGAGGGCCCCGGGGACGGAGCGGAGGGCGCGGAGGAGG
 GCCCGGGCCACCGCGCCAACTCTCCCCGAGCAGCTTTTCCGCGCAACGCTCGACGCGGGGCTCC
 ACCTTCTCGCTGTGGCAGGACATCCCCGACGTGCGCGCAGTGGCGTCTGGCCACGCTGAGCCTGCGCG
 GTGCAAGCTGCAGGAGGCCAAATTTGAGCTGATTACCTCGGAGGCCCTACATCCATAGCCTGTGCGGT
 GGCCGTGGGTCACTTCTTAGGTTCCGTGGAGCTGAGCGAGTGTCTGGGGACTCAGGACAAGCAGTGGCTA
 TTTTCAAAGTGCCCGAGGTCAAGAGCACAGTGAAGGTTTCTTACGACCTGGAGCAGCGTCTAGAGG
 CCGATGTGCTGCGCTTACGCGTGTGCGATGTGGTTCTACACCATTGCCCGCATTCCGCCGAGTCTACCT
 GCCTTACGTCACCAACCAGGCTACCAGGAGCGCACCTACCAGCGCTGCTCCTAGAGAACCCCAAGTTC
 CCCGGCATCCTGGCTCGCTAGAGGAGTCTCTGTGTGCCAGCGGCTGCCTCTCACCTCCTTCTCATCT
 TACCGTCCAGAGGTTACCCGCTCAAGATGCTGGTAGAGAACATTTTGAAGCGGACAGCACCGGGCTC
 CCAAGATGAGGACATGGCCACCAAGGCTTACGCGCTCTAAAGGAGCTGGTGCAGGAGTGAACCGGAGC
 GTGAGTCCATGAAGCGGACGGAGGAATAATCACCTAAGCAAGAAGATCCATTTTGAAGGCAAGATCT
 TCCCGCTGATCTACAGGCCCGCTGGCTGGTCCGGCACGGGGAGCTGGTGGAGTTGGCCCCCTGCCCGC
 CGCACCGCCAGCCAACTGAAGCTGTCCAGCAAGGCCGTGACCTTACCTCTTCAATGACTGCCTGCTG
 CTGTCCCAGGGAAGGAGCTCGGGAAGTTTGGCGTTTTTGTCCATGCCAACATGGCTGAGCTACAGGTTT
 GAGACCTCAGCCTGAAGCTCCAGGGCATCCAGGCCATGTGTTCTGCTCAGGCTGCTGCACGGGACGG
 CGCCAGGACACAGCTGCTGCTGAGAGCACGGACCGAAAGTGAGAAGCAACGGTGGATTTACGCTTGAGA
 CCATCCAGCCCCAGGAGGACAAGGAGATCACATGTGATGGGGAAGACCGACCCAGGTCAGTGTGTGA
 GGACCTACAAGGCCCTGCAGCCAGATGAACTCACCTTGAGAAGACAGACATCCTGGCAGTGAAGACCAG
 GACCAGCGATGGCTGGCTGGAGGGCGTGGCCTGGCCGATGGTGAAGAGGATGGGTGCCTCAGGCCAT
 GTGGTGGAGATCAGCAGCCTCAGCGCTCGACTGCCAACCTCAGAGAGTACAAGAGGGTCTCCAACGCCA
 GCAGCAAGCTGGGGACCCACCTGCC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210728 representing NM_172520
Red=Cloning site Green=Tags(s)

MDCGPPATLQPHLAGPPGTARRPVAVCQQESLSFVELPPSRLCVDLFPIAPEELQAPGSRWSLATPAPLQ
GLLWPTSPGGPDTHIASTSGGMRPGRAGSWPHCPGAQPPTLVEPWSSQHMQPQRRASHSGSEKSAWRKMQ
VYHNEEATGTETPTGLETGQAAQEALCALEPGPQELSGNARGGLEAPERRRFSASELMTRLHSSLRLG
RSTATRVLTSGSGAGAIREGKLPVRESRRAETRADSVSLPGPVDLNEVHGGLVEPRLDTQDKPTQDPSSA
TERRQSRFLNSVLYQEYSDVASARELRRQQREEEGPGDGAEGAEEGPGRANLSPSSSFRAQRSTRGS
TFSLWQDIPDVRGSGVLATLSLRDCKLQEAKFELITSEASYIHSLSVAVGHFLGVELSECLGTQDKQWL
FSKLPEVKSTSERFLHDLEQRLEADVLRFSVCDVVLHHCAPFRRVYLPYVTNQAYQERTYQRLLENPKF
PGILARLEESPVQRLPLTSFLILPFQVTRKMLVENILKRTAPGSQDEDMATKAFSALKELVQECNAS
VQSMKRTEELIHL SKKIHFEGKIFPLISQARWLVRHGELVELAPLPAAPPAKLKLSKAVYLHLFNDCLL
LSRRKELGKFAVFVHANMAELQVRDLSLKLQGI PGHVFLRLHGRARHQLLRARTESEKQRWISALR
PSSPQEDKEITCDGEDRPQVQCVR TYKALQPEL TLEKTDILAVKTRTSDGWLEGVRLADGEKGVWPQAH
VVEISSLSARLRNLREYKRVSNA SSKLGDPPA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9048_g04.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


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

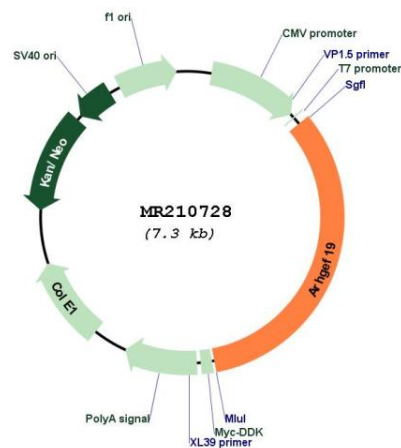
UniProt ID: [Q8BWA8](#)

Cytogenetics: 4 D3

MW: 89.3 kDa

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

Product images:



Circular map for MR210728