

Product datasheet for **MR209864**

Arhgap18 (NM_176837) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap18 (NM_176837) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap18
Synonyms:	4833419J07Rik; AI314906; AI843501
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209864 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGAAGTGGCTATCGAGTTCCTCGGGAGTTGTGCTAACTGCTTACCACCCAGCGCAAGGACCAGGTCTG
CTGGGGACAGCCATGTAAAGGGAGGCGACGAAGCCACCTCCAGTCGCAGATATGGCCAATACACCATAAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR209864 protein sequence
 Red=Cloning site Green=Tags(s)

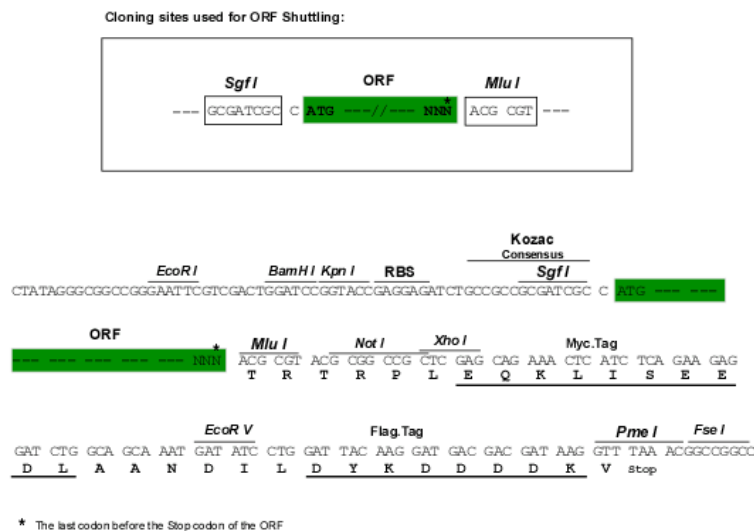
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 KAFQAVQNLPTKRELQALNLLVILLPDANRDTLKALLEFLQVRIDNKEKNKMTAGNVAMVMAPNLFMCH
 TLGLKSSEQREFEMAAGTANVMHLLIRYQKILWTIPKFIVQVRQNIENQKKERKAMKLLKKMAYDRE
 KHEKQDKTANGADVPQGVIRVQAPHLKVSMAIQLTEELKASDVLARFLSQESGVAQTLKKGEVFLYEIG
 GNIGERCLDDTHMKDLYQLNPNAEWIKSKPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_176837

ORF Size: 1989 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_176837.2](#), [NP_789807.1](#)

RefSeq Size: 3616 bp

RefSeq ORF: 1992 bp

Locus ID: 73910

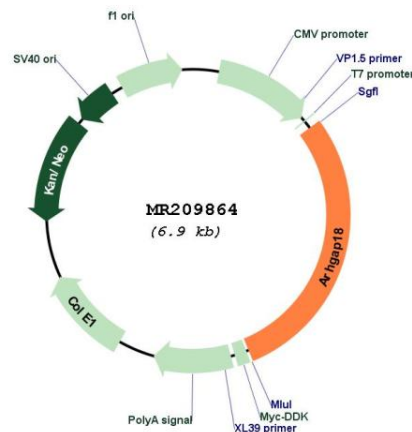
UniProt ID: [Q8K0Q5](#)

Cytogenetics: 10 A4

MW: 74.9 kDa

Gene Summary: Rho GTPase activating protein that suppresses F-actin polymerization by inhibiting Rho. Rho GTPase activating proteins act by converting Rho-type GTPases to an inactive GDP-bound state. Plays a key role in tissue tension and 3D tissue shape by regulating cortical actomyosin network formation. Acts downstream of YAP1 and inhibits actin polymerization, which in turn reduces nuclear localization of YAP1. Regulates cell shape, spreading, and migration (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209864