

Product datasheet for **MR209791**

Arhgap24 (BC023344) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap24 (BC023344) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap24
Synonyms:	MGC38749
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209791 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAGCCAATCATGAGAGCTATCTCCTCATGGCGAGCACCCAGAATGACATGGAAGACTGGTGAAGT
 CCATCCGCCGAGTCATATGGGGACCTTTTGGAGGAGGTATTTTGGACAGAACTGGAAGACACAGTCCG
 ATATGAAAAGAGGTACGGGAACCGGCTGGCACCCATGCTGGTGGAGCAGTGTGTGGACTTCATCCGACAG
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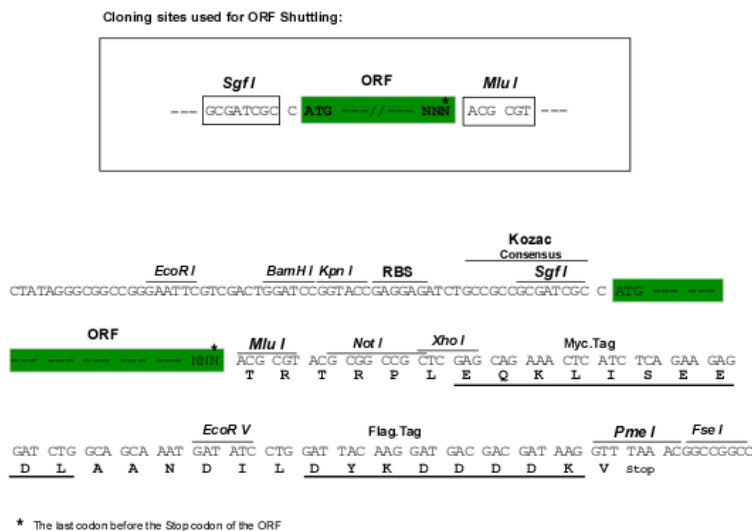
Protein Sequence: >MR209791 protein sequence
Red=Cloning site Green=Tags(s)

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MTANHESYLLMASTQNDMEDWVKSIRRVIWGPFGGGIFGQKLEDTVRYEKRYGNRLAPMLVEQCVDFIRQ
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TLLSKEEEAGVKELMKQVKSLPVVNYNLLKYICRFLDEVQSYSGVNKMSAQNLATVFGPNILRPKVEDPL
TIMEGTVVVQQLMSVMIKHDRLFPKDTEPQSKPQDGPNSNNNDGHKKA TMGQLQNKENNNTKESPVRR
SWDKPESQORSSVDNGSPTALSGSKTNSPRNSIHKLDISRSPPLMVKKNPAFNKGSIVTNGSFSSNAE
GVEKPQTTPNGSLQARRTSSLKSSGTKMGTHSVQNGTVRMGILNTDTLGNLSNGRSMSWLPNGYVTLRDN
KQKEPAGESGQHNRLSTYDNVHQQFSSMSLDDKHVSVDATWSTSSCEISLPENSNSCRSSTTTCPEQDFY
VGNFEDPVLDPQQDL SHPGDYENKSDRRSVGGRSSRATSSSDNSETFVNGTSSNHSALHSLVSSLKQE
MTKQKIEYESRIKLSLEQRNLTLETEMLSLHDEL DQERKKFTMIEIKMRNAERAKEDA EKRNDMLQKEME
FFSTFGDLTVEPRRSERGNTIWIQ
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC023344

ORF Size: 1962 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: [BC023344](#), [AAH23344](#)

RefSeq Size: 2732 bp

RefSeq ORF: 1964 bp

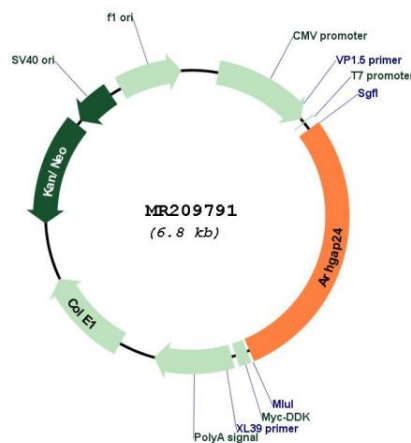
Locus ID: 231532

Cytogenetics: 5 E5

MW: 73.3 kDa

Gene Summary: Rho GTPase-activating protein involved in cell polarity, cell morphology and cytoskeletal organization. Acts as a GTPase activator for the Rac-type GTPase by converting it to an inactive GDP-bound state. Controls actin remodeling by inactivating Rac downstream of Rho leading to suppress leading edge protrusion and promotes cell retraction to achieve cellular polarity. Able to suppress RAC1 and CDC42 activity in vitro. Overexpression induces cell rounding with partial or complete disruption of actin stress fibers and formation of membrane ruffles, lamellipodia, and filopodia. Isoform 2 is a vascular cell-specific GAP involved in modulation of angiogenesis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209791