

Product datasheet for **MR230797**

Arhgap24 (NM_001286468) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap24 (NM_001286468) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap24
Synonyms:	0610025G21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR230797 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAGCCAATCATGAGAGCTATCTCCTCATGGCGAGCACCCAGAATGACATGGAAGACTGGTGAAGT
 CCATCCGCCGAGTCATATGGGGACCTTTTGGAGGAGGTATTTTGGACAGAACTGGAAGACACAGTCCG
 ATATGAAAAGAGGTACGGGAACCGCTGGCACCCATGCTGGTGGAGCAGTGTGTGGACTTCATCCGACAG
 CGGGGGCTGAAGGAAGAAGGCCCTCTCCGGCTGCCGGGCCAGGCGAACCTGGTCAAGGAGCTCCAGGATG
 CGTTCCGACTGTGGAGAGAAGCCCTCCTTCGACAGCAACACCGACGTCCACACTGTGGCATCCCTGCTGAA
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 ACGCTGCTCAGTAAGGAGGAAGAAGCAGGTGTTAAGGAGCTAATGAAACAAGTGAAGAGTTTGCCTGTGG
 TTAACAACAACCTTCTGAAGTACATTTGCAGGTTCTGGATGAAGTGCAGTCTATTCCAGGATTAACAA
 GATGAGCGCACAGAACTTGGCAACTGTCTCGGTCTAACATCTCGCCCAAAGGTGGAAGATCCCTTG
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 GACATTCGTGGGCAACACCAGCAGCAACCACAGTGCACCTCACAGTTTAGTTTCCAGCCTGAAGCAGGAG
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 AG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230797 protein sequence
Red=Cloning site Green=Tags(s)

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MTANHESYLLMASTQNDMEDWVKSIRRVIWGPFGGGIFGQKLEDTVRYEKRYGNRLAPMLVEQCVDFIRQ
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TLLSKEEEAGVKELMKQVKSLPVVNYNLLKYICRFLDEVQSYSGVNKMSAQNLATVFGPNILRPKVEDPL
TIMEGTVVVQQLMSVMIKHDRLFPKDTEPQSKPQDGPNSNNNDGHKKATMGQLQNKENNNTKESPVRR
SWDKPESQORSSVDNGSPTALSGSKTNSPRNSIHKLDISRSPPLMVKKNPAFNKSGSIVTNGSFSSNAE
GVEKPQTTPNGSLQARRTSSLKSSGTKMGTHSVQNGTVRMGILNTDTLGNLSNGRSMSWLPNGYVTLRDN
KQKEPAGESGQHNRLSTYDNVHQQFSSMSLDDKHSVDSATWSTSSCEISLPENSNSCRSSTTTCPEQDFY
VGNFEDPVLDPGPDLLSHPGDYENKSDRRSVGGRSSRATSSSDNSETFVNGTSSNHSALHSLVSSLKQE
MTKQKIEYESRIKSLQNRNLTLEMLSLHDELQERKKFTMIEIKMRNAERAKEDAERNDMLQKEMEQQ
FFSTFGDLTVEPRRSERGNTIWIQ
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001286468

ORF Size: 1965 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_001286468.1](#), [NP_001273397.1](#)

RefSeq Size: 2751 bp

RefSeq ORF: 1965 bp

Locus ID: 231532

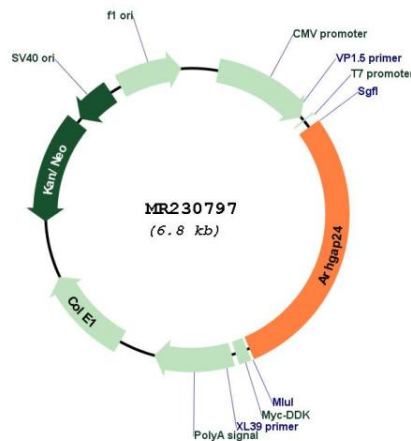
UniProt ID: [Q8C4V1](#)

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 MR230797