

Product datasheet for **MC205804**

Arhgap24 (NM_146161) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Arhgap24
Synonyms:	0610025G21Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF: >BC023344
GAGACGTGGTTTCCATTCTGGGTGATGGAGTCATGGGAGAACTGCATTGAGCAAACGAAGTGGGACCT
GAGCCGGCTCCAGTGTTCACTAAGCCGCTCAGGGCAGAGCAGCTGCTGTCTCTCCAGCCTGCATCTGTC
ACTGACCACTGAAGTGTGTGTGCAAGGAGGTGAACGAGATCGGATGACAGCCAATCATGAGAGCTATCTC
CTCATGGCAGCACCCAGAATGACATGGAAGACTGGGTGAAGTCCATCCGCCGAGTCATATGGGACCTT
TTGGAGGAGGTATTTTGGACAGAACTGGAAGACACAGTCCGATATGAAAAGAGGTACGGGAACCGCT
GGCACCCTATGCTGGTGGAGCAGTGTGTGGACTTCATCCGACAGCGGGGCTGAAGGAAGAAGGCCTCTT
CGGCTGCCGGGCCAGGCGAACCTGGTCAAGGAGCTCCAGGATGCGTTCGACTGTGGAGAGAAGCCCTCCT
TCGACAGCAACACCGACGTCCACACTGTGGCATCCCTGCTGAAATTGTATCTCCGAGAACTTCCAGAGCC
CGTCGTTCTTATGCAAAGTATGAAGACTTTTGTCTGCGCCACGCTGCTCAGTAAGGAGGAAGAAGCA
GGTGTTAAGGAGCTAATGAAACAAGTGAAGAGTTTGCCTGTGGTTAACTACAACCTTCTGAAGTACATTT
GCAGGTTTCTGGATGAAGTGCAGTCTTATTCAGGAGTTAACAAGATGAGCGCACAGAAGTTGGCACTGT
CTTCGTCCTAACATCCTGCGCCAAAGGTGGAAGATCCCTTGACCATCATGGAGGGCACTGTGGTGGTC
CAGCAGTTAATGTCAGTGATGATTAGTAAGCATGATCGACTCTTCCCAAAGACACAGAACCACAAAGCA
AGCCCCAAGACGGCCGAACAGCAATAATAACGATGGTCATAAGAAAGCCACCATTGGGTGAGTTCAGAA
CAAAGAAAAAATAATACCAAGGAGAGCCCGTCAGAAGGTGCTCTTGGGACAAGCCTGAATCCCCCAG
AGAAGCAGCGTGGACAATGGATCCCCACAGCCCTATCAGGCAGCAAAACCAAGCCCAAGGAACAGTA
TCCACAAGCTGGATATTTCCAGGAGCCCCCTCTCATGGTCAAAAAGAACCCAGCCTTCAACAAGGGCAG
TGGGATTGTACCAACGGGTCAATTCAGCAGCAGCAATGCAGAAGGTGTCGAGAAGCCTCAAACCTACTCT
AATGGGAGTTTACAAGCCAGAAGGACCTTCTACTGAAGAGTTCTGGTACCAAAATGGGCACTCAGAGTG
TACAGAATGGCACTGTCCGCATGGGTATTCTGAACACTGACACACTAGGGAATTCCTTGAACGGCCGGAG
CATGAGTTGGCTGCCAATGGCTATGTGACCTGAGAGATAACAACAGAAGGAGCCAGCAGGAGAGTCA
GGCCAGCACAACAGACTCTCCACCTACGACAATGTCCACCAGCAGTTCTCCTGATGAGCCTCGACGACA
AGCACAGCGTGGACAGTGCCACGTGGTCCACCTCCTCTGCGAAATCTCCTCCTGAGAACTCCAAATC
CTGCCGCTCCTCTACCACCACGTGCCAGAGCAAGACTTCTACGTTGGGAACCTTGGAGACCTGTTTTA
GACGGCCACCTCAGGATGATCTTTCCATCCCGGGGACTATGAGAACAAAAGTGACCGCAGGAGCGTAG
GGGGCCGAAGCAGCCGCCACGAGCAGCAGGATAACAGCGAGACATTCGTGGGCAACACCAGCAGCAA
CCACAGTGCATTCACAGTTTAGTTTCCAGCCTGAAGCAGGAGATGACCAAAACAGAAGATCGAGTATGAG
TCCAGGATAAAAAGCTTAGAACAGCGGAATTTGACTTTGGAACCGAAATGCTGAGCCTCCATGACGAAC
TGGATCAAGAGAGGAAAAAGTTCACCATGATAGAAATCAAGATGAGAAACGCTGAGCGCGAAAGGAGGA
TGCGGAGAAAAAGAACGACATGCTCCAGAAGGAGATGGAGCAGTTCTTCCACATTTGGAGACCTGACA
GTGGAACCCAGGAGAAGCGAGAGAGGAAACACAATCTGGATCCAGTGAGCCTTCTCTGTCTGGACCGC
TCGCTCCGCGGAGGACTCTGGGGAATCCGGGGCAACAGTGTGGGGAACAGGTGTGGGATCAGGTGGTT
GGTCTGTGTAGAGCTTCATCTGGTGCAGGAATCTCATTTCCAGACATCACTATCCATATCTCAGTGTGT
ACCAAAGTTATATCATGCTCCATAATGCTACTGTCAAGTGTACAAGTGGATATGTGTATAGAGAGTAGT
TTCTAAGATGTCAATAAGAGTAAGAAGCATATATCTCAATGATTATTTTATTGCAAGTCTGTATTTAAA
TGTCGAATCAATACTTTGTTGCAATTTAGCTTGCAATTCAAGCTTCAACCCGTGCACTTAACATAAGCTAT
TTTTGGCATCGTGTATCATCTGCTATTTTATAGATCAATATTTTATTTCCCTTTTGTGCGAGAAAT
GGAGATAAGAAGAGATATAATATATAATATATAAGATGAGTTATTTAAAGTCAAAAGAATACTTTGT
GGCTGTGCTGTTTGTGCCAATAGACCTTGCCATGACCAAAAAAGAGCAATGTAAACAAAAA A A

Restriction Sites: RsrII-NotI

ACCN: NM_146161

Insert Size: 1965 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>BC023344, AAH23344</u>
RefSeq Size:	2732 bp
RefSeq ORF:	1965 bp
Locus ID:	231532
UniProt ID:	<u>Q8C4V1</u>
Cytogenetics:	5 E5
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] Transcript Variant: This variant (2) lacks an alternate exon in the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. Variants 2 and 3 encode the same isoform (2), which has a shorter N-terminus, compared to isoform 1.