

Product datasheet for **MC228586**

Arhgap24 (NM_001286468) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC228586 representing NM_001286468
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACAGCCAATCATGAGAGCTATCTCCTCATGGCGAGCACCCAGAATGACATGGAAGACTGGTGAAGT
 CCATCCGCCGAGTCATATGGGGACCTTTTGGAGGAGTATTTTGGACAGAACTGGAAGACACAGTCCG
 ATATGAAAAGAGGTACGGGAACCGGCTGGCACCCATGCTGGTGGAGCAGTGTGTGGACTTCATCCGACG
 CGGGGGCTGAAGGAAGAAGGCTCTTCCGGCTGCCGGCCAGGCGAACCTGGTCAAGGAGCTCCAGGATG
 CGTTCGACTGTGGAGAGAAGCCCTCCTTCGACAGCAACCCGACGTCCACACTGTGGCATCCCTGCTGAA
 ATTGTATCTCCGAGAACTCCAGAGCCCGTTCCTTATGCAAAGTATGAAGACTTTTTGTCTGCGCC
 ACGCTGCTCAGTAAGGAGGAAGAAGCAGGTGTTAAGGAGCTAATGAAACAAGTGAAGAGTTTGCCTGTGG
 TTAACAACAACCTTCTGAAGTACATTTGCAGGTTCTGGATGAAGTGCAGTCTATTCCAGGATTAACAA
 GATGAGCGCACAGAACTGGCAACTGTCTCGGTCTAACATCTGCGCCAAAGGTGGAAGATCCCTTG
 ACCATCATGGAGGCACTGTGGTGGTCCAGCAGTTAATGTCAGTATGATTAGTAAGCATGATCGACTCT
 TCCCCAAAGACACAGAACCACAAAGCAAGCCCCAAGACGGCCGAAACAGCAATAATAACGATGGTCATAA
 GAAAGCCACCATGGGTGAGTTCGAGAACAAGAAAAAATAATACCAAGGAGAGCCCCGTGAGAAGGTGC
 TCTTGGGACAAGCCTGAATCCCCCAGAGAAGCAGCGTGGACAATGGATCCCCCAGACCCCTATCAGGCA
 GCAAAACCAACAGCCCAAGGAACAGTATCCACAAGCTGGATATTTCCAGGAGCCCCCTCTCATGGTCAA
 AAAGAACCAGCCTTCAACAAGGCGAGTGGGATTTGTCACCAACGGGTCAATCAGCAGCAGCAATGCAGAA
 GGTGTCGAGAAGCCTCAAACACTCCTAATGGGAGTTTACAAGCCAGAAGGACCTTCTCACTGAAGAGTT
 CTGGTACCAAAAATGGGCACTCACAGTGTACAGAATGGCACTGTCCGCATGGGTATTCTGAACACTGACAC
 ACTAGGGAATTCCTTGAACGGCCGGAGCATGAGTTGGCTGCCCAATGGCTATGTGACCCTGAGAGATAAC
 AAACAGAAGGAGCCAGCAGGAGAGTTCAGGCCAGCACAACAGACTCTCCACCTACGACAATGTCCACCAGC
 AGTTCTCCTCGATGAGCCTCGACGACAAGCACAGCGTGGACAGTCCACGTGGTCCACCTCCTCCTGCGA
 AATCTCCCTCCCTGAGAACTCCAATTCCTGCCGCTCCTTACCACCACGTGCCAGAGCAAGACTTCTAC
 GTTGGGAACTTTGAGGACCCTGTTTTAGACGGCCACCTCAGGATGATCTTTCCCATCCCGGGGACTATG
 AGAACAAAAGTGACCGCAGGAGCGTAGGGGGCCGAAGCAGCCGCGCCACGAGCAGCAGCGATAACAGCGA
 GACATTCGTGGGCAACACCAGCAGCAACCACAGTGCACCTCACAGTTTAGTTTCCAGCCTGAAGCAGGAG
 ATGACCAAACAGAAGATCGAGTATGAGTCCAGGATAAAAAGCTTGAACAGCGGAATTTGACTTTGGAAA
 CGGAAATGCTGAGCCTCCATGACGAACTGGATCAAGAGAGGAAAAAGTTACCATGATAGAAATCAAGAT
 GAGAAACGCTGAGCGCGCAAAGGAGGATGCGGAGAAAAGGAACGACATGCTCCAGAGGAGATGGAGCAG
 TTCTTCTCCACATTTGGAGACCTGACAGTGAACCCAGGAGAAGCGAGAGAGGAAACACAATCTGGATCC
 AGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001286468

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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<ol style="list-style-type: none">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:	<u>NM_001286468.1</u> , <u>NP_001273397.1</u>
RefSeq Size:	2751 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 (3) contains an alternate 5' terminal exon 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.