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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAGCCAATCATGAGAGCTATCTCCTCATGGCGAGCACCCAGAATGACATGGAAGACTGGGTGAAGT
CCATCCGCCGAGTCATATGGGGACCTTTTGGAGGAGGTATTTTTGGACAGAAACTGGAAGACACAGTCCG
ATATGAAAAGAGGTACGGGAACCGGCTGGCACCCATGCTGGTGGAGCAGTGTGTGGACTTCATCCGACAG
CGGGGGCTGAAGGAAGAAGGCCTCTTCCGGCTGCCGGGCCAGGCGAACCTGGTCAAGGAGCTCCAGGATG
CGTTCGACTGTGGAGAGAAGCCCTCCTTCGACAGCAACACCGACGTCCACACTGTGGCATCCCTGCTGAA
ATTGTATCTCCGAGAACTTCCAGAGCCCGTCGTTCCTTATGCAAAGTATGAAGACTTTTTGTCCTGCGCC
ACGCTGCTCAGTAAGGAGGAAGAAGCAGGTGTTAAGGAGCTAATGAAACAAGTGAAGAGTTTGCCTGTGG
TTAACTACAACCTTCTGAAGTACATTTGCAGGTTCCTGGATGAAGTGCAGTCCTATTCAGGAGTTAACAA
GATGAGCGCACAGAACTTGGCAACTGTCTTCGGTCCTAACATCCTGCGCCCAAAGGTGGAAGATCCCTTG
ACCATCATGGAGGGCACTGTGGTGGTCCAGCAGTTAATGTCAGTGATGATTAGTAAGCATGATCGACTCT
TCCCCAAAGACACAGAACCACAAAGCAAGCCCCAAGACGGCCCGAACAGCAATAATAACGATGGTCATAA
GAAAGCCACCATGGGTCAGTTGCAGAACAAAGAAAACAATAATACCAAGGAGAGCCCCGTCAGAAGGTGC
TCTTGGGACAAGCCTGAATCCCCCCAGAGAAGCAGCGTGGACAATGGATCCCCCACAGCCCTATCAGGCA
GCAAAACCAACAGCCCAAGGAACAGTATCCACAAGCTGGATATTTCCAGGAGCCCCCCTCTCATGGTCAA
AAAGAACCCAGCCTTCAACAAGGGCAGTGGGATTGTCACCAACGGGTCATTCAGCAGCAGCAATGCAGAA
GGTGTCGAGAAGCCTCAAACTACTCCTAATGGGAGTTTACAAGCCAGAAGGACCTCTTCACTGAAGAGTT
CTGGTACCAAAATGGGCACTCACAGTGTACAGAATGGCACTGTCCGCATGGGTATTCTGAACACTGACAC
ACTAGGGAATTCCTTGAACGGCCGGAGCATGAGTTGGCTGCCCAATGGCTATGTGACCCTGAGAGATAAC
AAACAGAAGGAGCCAGCAGGAGAGTCAGGCCAGCACAACAGACTCTCCACCTACGACAATGTCCACCAGC
AGTTCTCCTCGATGAGCCTCGACGACAAGCACAGCGTGGACAGTGCCACGTGGTCCACCTCCTCCTGCGA
AATCTCCCTCCCTGAGAACTCCAATTCCTGCCGCTCCTCTACCACCACGTGCCCAGAGCAAGACTTCTAC
GTTGGGAACTTTGAGGACCCTGTTTTAGACGGCCCACCTCAGGATGATCTTTCCCATCCCGGGGACTATG
AGAACAAAAGTGACCGCAGGAGCGTAGGGGGCCGAAGCAGCCGCGCCACGAGCAGCAGCGATAACAGCGA
GACATTCGTGGGCAACACCAGCAGCAACCACAGTGCACTTCACAGTTTAGTTTCCAGCCTGAAGCAGGAG
ATGACCAAACAGAAGATCGAGTATGAGTCCAGGATAAAAAGCTTAGAACAGCGGAATTTGACTTTGGAAA
CGGAAATGCTGAGCCTCCATGACGAACTGGATCAAGAGAGGAAAAAGTTCACCATGATAGAAATCAAGAT
GAGAAACGCTGAGCGCGCAAAGGAGGATGCGGAGAAAAGGAACGACATGCTCCAGAAGGAGATGGAGCAG
TTCTTCTCCACATTTGGAGACCTGACAGTGGAACCCAGGAGAAGCGAGAGAGGAAACACAATCTGGATCC
AGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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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.

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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
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.

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