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Product datasheet for MC220268

Arhgap18 (NM_176837) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap18 (NM_176837) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgap18
Synonyms:	4833419J07Rik; AI314906; AI843501
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC220268 representing NM_176837
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACTGGCTATCGAGTTCCTCGGGAGTTGTGCTAACTGCTTACCACCCCAGCGGCAAGGACCAGGTCG
CTGGGGACAGCCATGTAAAGGGAGGCGACGAAGCCACCTCCAGTCGCAGATATGGCCAATACACCATAAA
CCAAGAAGGCTCCACCAAAGTTCCCGAGAGGCCTCCATTTGATCGATCGAGTTCTCAGGATTCCTTGGAT
GAATCAATGGAAGCCTATTGGACAGAACTAGAAAACATCAAGAGGTCGAATGAAAATCGCCAAGAAGGTC
AAGAGGCCATAGTTGTCAAAGAACCTGATGAGGGAGAACTGGAAGAAGAATGGCTCAAAGAAGCAGGTCT
ATCCAATCTTTTTGGAGAGTCTATTGATGACCCGCAGGAAAGCATTCTGTTTTTATCTACACTGACCCGG
ACTCAGGCAGCAGCTGTTCAGAAACGGGTGGAAACGGTCTCCCAGACCTTGAGGAAGAAAAACAAACAGC
ACCACATTCGTGACGTCAGAGACATATTTGCTCAACAGAGAGAGGCACAAGAAAAACCTCCAGATGACTC
AGACTTGCGGTCAGTCAGAACAAACGAAAACAAAGGCCAAGGAAAAGATGATCAGCCATCTAGTGGGGCT
GTCGATAGCAAGGAGCAGATCTCACGGGTGCCTGAGGACACACCTGCCTCTGAAACAGACATCAATCTGG
AGGTGTCATTTGCGGAGCAAGCTGTCAATCAGAAAGAGTTCAGTAAGGAGAGGACGCAGAAGATCAGCAG
CAACGACTCTTTGCCCAGTTTCAGACTGCCAAAAGATAAAACAGGTACGACAAGGATTGGAGACTTGGCA
CCCCAAGACATGAAGAAAGTTTGCTCTCTATCCCTGATTGAACTCACTGCCCTGTATGATGTGTTGGGCT
TGGAATTCAAACAACAGAAAGCTGTGAAAATCAAAACCAGAGACTCTGGTCTTTTTGGTATTCCTTTAAC
GATATTGTTAGAACAAGATCAAAGAAAAGTGCCTGGAACACGAATACCCTTGATCTTTCAAAAACTGATT
TCTCGAATTGAAGAAGGCAGTCTGGAAACCGAGGGCCTCCTACGGATACCAGGAGCAGCCATGAGAATCA
AGAATCTTTGCCAAGAACTAGAAGCGAAATTTTACGAGGGGACTTTCAATTGGGAAAGTGTCAAACAGCA
CGATGCGGCCAGCCTGCTGAAGCTCTTTCTGAGAGAATTGCCCCAGCCACTGCTGAGCATGGAGTATCTC
AAAGCCTTCCAAGCTGTCCAGAATCTTCCAACCAGAAAGGAACAGTTGCAGGCTTTGAACCTCCTTGTCA
TTCTTCTACCTGACGCAAACAGAGACACACTGAAGGCCTTGCTTGAATTTCTCCAAAGAGTCATAGATAA
CAAAGAGAAGAACAAGATGACAGCTGGGAATGTAGCAATGGTCATGGCCCCAAATCTCTTCATGTGCCAC
ACGCTGGGCTTGAAGTCCAGTGAACAGCGAGAATTTGAAATGGCAGCTGGGACAGCAAATGTCATGCACT
TATTGATTAGGTACCAGAAAATTCTATGGACAATCCCTAAATTTATTGTAATCCAAGTGAGGAAACAGAA
TATTGAGAATCAAAAGAAGGAAAGGAAAGCCATGAAGAAATTGCTGAAGAAAATGGCTTATGACCGGGAA
AAACATGAAAAGCAAGATAAAACTGCAAATGGTGCTGATGTTCCTCAGGGAGTGATTCGAGTGCAAGCTC
CCCATCTTTCAAAAGTTTCCATGGCAATACAGCTAACTGAAGAACTAAAAGCCAGCGATGTGCTTGCCAG
GTTTCTCAGCCAAGAAAGTGGGGTTGCCCAGACACTCAAGAAAGGAGAAGTTTTCCTGTATGAGATTGGA
GGAAATATTGGGGAACGTTGCCTCGATGACGACACACACATGAAGGACTTGTACCAACTGAACCCGAATG
CCGAGTGGGTCATAAAATCCAAGCCAGTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_176837

Insert Size: 1992 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:	NM_176837.2, NP_789807.1
RefSeq Size:	3616 bp
RefSeq ORF:	1992 bp
Locus ID:	73910
UniProt ID:	Q8K0Q5
Cytogenetics:	10 A4
Gene Summary:	Rho GTPase activating protein that suppresses F-actin polymerization by inhibiting Rho. Rho GTPase activating proteins act by converting Rho-type GTPases to an inactive GDP-bound state. Plays a key role in tissue tension and 3D tissue shape by regulating cortical actomyosin network formation. Acts downstream of YAP1 and inhibits actin polymerization, which in turn reduces nuclear localization of YAP1. Regulates cell shape, spreading, and migration (By similarity).[UniProtKB/Swiss-Prot Function]