

Product datasheet for **MC218633**

Arhgap22 (BC038272) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap22 (BC038272) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgap22
Synonyms:	MGC47316, RHOGAP2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC038272
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAGCTCCCAGCGGATATGGAGGACTGGGTGCAGGCCATCCGCCGTGCATCTGGGCCCCGCTGG
GCAGAGGGATCTTTGGCCAGCGCTAGAGGACACAGTGCACCATGAGCGGAAGTTTGGTCCCGGCTGGC
ACCTCTGCTGGTGGAGCAGTGTGTGGACTTCATCCGGGAGCGAGGACTCAGTGAAGAGGGCCTCTCCGG
ATGCTGGCCAGGCCAACCTGGTGGAGGACCTGCAGGATTCCTTCGACTGTGGGAGAAGCCGCTGTTTG
ACAGGTTTCTGGATGAAGTGCAGGCCACTCAGATGTCAATAAGATGAGTGTCCAGAACTTGGCAACTGT
CTTTGGTCTAACATTCTTCGGCCACAGATAGAGGATCCAGTAACCATCATGGAAGGCACGTCTCTGGTT
CAGCATCTGATGACTGCCTCATCCGAAACATGGACAGCTCTTTGCTGCAACCTCCCTGAAGAACCTG
CTTCACCACATGGCACAGTAGAGTGGGGCTCTGAAGAGGTACCAGGGATCACCGGGGTGAGCCTGGCAG
CCCTGGCTTGCCACACATAGGACTTCATCTCTGGATGGGCCAGCTGCAGCAGTGTATCTAGAACTTCG
CGCCCGCCCTTGGCAGCCAAACTGGCCCCGAGCCACCAGCCCTGGGAAGAAGATGCACACTTTGCCTG
TCTGGAAGTCTTCTTTTCGGCAGCAGGGATCCCGGTGAGAGAGCCCCAAAGGGGTCAACTCATCCTTAGA
GGTACCCATCATCTCCTCTGGTGGGAACTGGCTCATAAACGGGCTATCGTCTCTTCGAGCCACCGTCGG
GCCTCATCGGGGACCGCCTTAAGATACAGGCTCGGCACAGAGACTCTCCACCTATGACAATGTGCCGC
CATCTAGCCAATTTCTAGCACTGCCAGCGTGGCCAGCACGTGATGGTCTGTAGCCTCGTCTCCCGAGA
GGCCTCTGTGCAGCAGTGCACAGCCTGCCGGGCCAGCAACTCTTCTGCCTGCAGCTCCTTACACACCGAG
TGGGCTCTCGAGCCCTCTCTCTCCCCAGCAGCAGTGGGGCCACCAGTCCCCGGACCTGGGCCACAGCC
TGGATGAGCCATGTGTGGCAGTGGCAGCAGTGGCCCAATGACCCAGGCAGCCCCACAGGCCCATGT
TCGCCGCTGCCGGGCTCTCCAGGGCCAGGTGGCCGAGCTCAGGGCAGAGTTGTGTGAGCAGAGGACTGAG
TACAAGAGGAGCCTGAAAAGCATCGAGGAGGGCAGTGGTACCTGCGGAAGCAGATGTCTCGTTGGAAG
AGGAGCTGGACCAGGAGAGGAAGAAGTATGCCATGCTGGAGATCAAGCTCCGGAAGCTCGGAGCGAGCCCG
GGAGGATGCGGAGCGCAGGAACCAGTGTGCAGAGGGAGATGGAGGAGTTCTTCTCCACCTGGGGAGC
TTGACTACAGGGACCAAGGGTCCAGAGCCCCGGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: BC038272

Insert Size: 1509 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.

RefSeq: [BC038272](#), [AAH38272](#)

RefSeq Size: 2108 bp

RefSeq ORF: 1508 bp

Locus ID: 239027

Cytogenetics: 14 B

Gene Summary: Rho GTPase-activating protein involved in the signal transduction pathway that regulates endothelial cell capillary tube formation during angiogenesis. Acts as a GTPase activator for the RAC1 by converting it to an inactive GDP-bound state. Inhibits RAC1-dependent lamellipodia formation. May also play a role in transcription regulation via its interaction with VEZF1, by regulating activity of the endothelin-1 (EDN1) promoter.[UniProtKB/Swiss-Prot Function]