

Product datasheet for **MR208068**

Arhgap22 (BC038272) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR208068 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAGCTCCCAGCGGATATGGAGGACTGGGTGCAGGCCATCCGCCGTGCATCTGGGCCCCGCTGG
 GCAGAGGGATCTTTGGCCAGCGCTAGAGGACACAGTGCACCATGAGCGGAAGTTTGGTCCCGGCTGGC
 ACCTCTGCTGGTGGAGCAGTGTGTGGACTTCATCCGGGAGCGAGGACTCAGTGAAGAGGGCCTCTCCGG
 ATGCTGGCCAGGCCAACCTGGTGGAGGACCTGCAGGATTCCTTCGACTGTGGGAGAAGCCGCTGTTTG
 ACAGGTTTCTGGATGAAGTGCAGGCCACTCAGATGTCAATAAGATGAGTGTCCAGAACTTGGCAACTGT
 CTTTGGTCTAACATTCTTCGGCCACAGATAGAGGATCCAGTAACCATCATGGAAGGCACGTCTCTGGTT
 CAGCATCTGATGACTGCCTCATCCGAAACATGGACAGCTCTTGTGCAACCTCCCTGAAGAACCTG
 CTTACCACATGGCACAGTAGAGTGGGGCTCTGAAGAGGTACCAGGGATCACCGGGGTGAGCCTGGCAG
 CCCTGGCTTGCCACACATAGGACTTCATCTCTGGATGGGCCAGCTGCAGCAGTGTATCTAGAACTTCG
 CGCCCGCCTTGGCAGCCAACTGGCCCCGAGCCACCAGCCCTGGGAAGAAGTGCACACTTTGCCTG
 TCTGGAAGTCTTCTTTTCGGCAGCAGGGATCCCGTCCAGAGAGCCCAAAGGGTCAACTCATCCTTAGA
 GGTACCCATCATCTCTCTGGTGGAACTGGCTCATAAACGGGCTATCGTCTCTTCGAGCCACCGTCGG
 GCCTCATCGGGGACCGCCTTAAGATACAGGCTCGGCACAGAGACTCTCCACCTATGACAATGTGCCGC
 CATCTAGCCAATTTCTAGCACTGCCAGCGTGGCCAGCACGTCTGGTCTGTAGCCTCGTCTCCCGAGA
 GGCCTCTGTCAGCAGTGCACAGCCTGCCGGCCAGCAACTCTTCTGCCTGCAGCTCCTTACACACCGAG
 TGGGCTCTCGAGCCCTCTCTCTCCAGCAGCAGTGGGGCCACCAGTCCCGGACCTGGGCCACAGCC
 TGGATGAGCCATGTGTGGCAGTGGCAGCAGTGGCCCAATGACCCAGGCAGCCACACAGGCCCATGT
 TCGCCGCTGCGGGCTCTCCAGGGCCAGGTGGCCGAGCTCAGGGCAGAGTTGTGTGAGCAGGACTGAG
 TACAAGAGGAGCCTGAAAAGCATCGAGGAGGGCAGTGTGACCTGCGGAAGCAGATGTCTCGTTGGAAG
 AGGAGCTGGACCAGGAGAGGAAGAAGTATGCCATGCTGGAGATCAAGCTCCGGAAGCTCGGAGCGAGCCCG
 GGAGGATGCGGAGCGCAGGAACAGCTGCTGCAGAGGGAGATGGAGGAGTTCTTCTCCACCTGGGGAGC
 TTGACTACAGGGACCAAGGGTCCAGAGCCCCGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208068 protein sequence
 Red=Cloning site Green=Tags(s)

MASSQRDMEDWVQAIRRVIWAPLGRGIFGQRLDVTVHERKFGPRLAPLLVEQCVDFIRERGLSEEGLFR
 MPGQANLVRDLQDSFDCGEKPLFDRFLDEVQAHSVNVKMSVQNLATVFGPNILRPQIEDPVTIMEGTSLV
 QHLMTVLIRKHGQLFAATSLEEPASPHGTVEWGSEEVTRDHRGEPGSPGLPTHRTSSLDGPAAAVLSRTS
 PPRLGSQTGPAATSPGKKMHTLPVWKSFRQGSRSSEPKGVNSSEVPIISSGGNWLINGLSSLRSHRR
 ASSGDRLKDTGSAQRLSTYDNVPPSSQFSSTASVASTSWSVASSSREASVSSCTACRASNSACSSLHTE
 WALEPSPLPSSSEGHQSPDLGHSLDEPCVGSSEPNDPGSPQAHVRRCRALQGQVAELRAELCQQRTE
 YKRSLKSIEEGSADLRKQMSRLEEELDQERKKYAMLEIKLRNSERAREDAERRNQLLQREMEFFSTLGS
 LTTGTGKSRAPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC038272

ORF Size: 1506 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

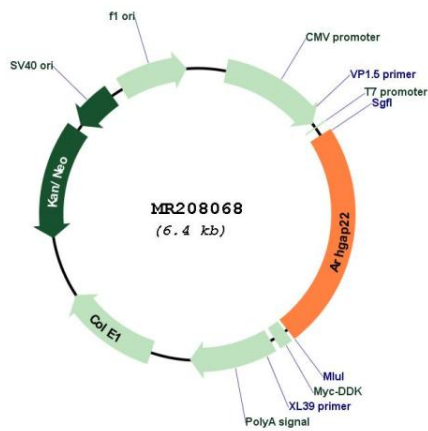
Locus ID: 239027

Cytogenetics: 14 B

MW: 55.1 kDa

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]

Product images:


Circular map for MR208068