

Product datasheet for **MG208068**

Arhgap22 (BC038272) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap22 (BC038272) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arhgap22
Synonyms:	MGC47316, RHOGAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208068 representing BC038272
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAGCTCCCAGCGGATATGGAGGACTGGGTGCAGGCCATCCGCCGTGCATCTGGGCCCCGCTGG
 GCAGAGGGATCTTTGGCCAGCGCTAGAGGACACAGTGCACCATGAGCGGAAGTTTGGTCCCGGCTGGC
 ACCTCTGCTGGTGGAGCAGTGTGTGGACTTCATCCGGGAGCGAGGACTCAGTGAAGAGGGCCTCTCCGG
 ATGCTGGCCAGGCCAACCTGGTGGAGGACCTGCAGGATTCCTTCGACTGTGGGAGAAGCCGCTGTTTG
 ACAGGTTTCTGGATGAAGTGCAGGCCACTCAGATGTCAATAAGATGAGTGTCCAGAACTTGGCAACTGT
 CTTTGGTCTAACATTCTTCGGCCACAGATAGAGGATCCAGTAACCATCATGGAAGGCACGTCTCTGGTT
 CAGCATCTGATGACTGCCTCATCCGAAACATGGACAGCTCTTGTGCAACCTCCCTGAAGAACCTG
 CTTACCACATGGCACAGTAGAGTGGGGCTCTGAAGAGGTACCAGGGATCACCGGGGTGAGCCTGGCAG
 CCCTGGCTTGCCACACATAGGACTTCATCTCTGGATGGGCCAGCTGCAGCAGTGTATCTAGAACTTCG
 CGCCCGCCTTGGCAGCCAAACTGGCCCCGAGCCACCAGCCCTGGGAAGAAGATGCACACTTTGCCTG
 TCTGGAAGTCTTCTTTTCGGCAGCAGGGATCCCGGTGAGAGAGCCCCAAAGGGGTCAACTCATCCTTAGA
 GGTACCCATCATCTCTCTGGTGGGAAGTGGCTCATAAACGGGCTATCGTCTCTTCGAGCCACCGTCGG
 GCCTCATCGGGGACCGCCTTAAGATACAGGCTCGGCACAGAGACTCTCCACCTATGACAATGTGCCGC
 CATCTAGCCAATTTCTAGCACTGCCAGCGTGGCCAGCACGTGATGGTCTGTAGCCTCGTCTCCCGAGA
 GGCCTCTGTCAGCAGTGCACAGCCTGCCGGCCAGCAACTCTTCTGCCTGCAGCTCCTTACACACCGAG
 TGGGCTCTCGAGCCCTCTCTCTCCCAGCAGCAGTGAAGGGCCACCAGTCCCCGGACCTGGGCCACAGCC
 TGGATGAGCCATGTGTGGCAGTGGCAGCAGTGAAGCCCAATGACCCAGGCAGCCACACAGGCCCATGT
 TCGCCGCTGCCGGGCTCTCCAGGGCCAGGTGGCCGAGCTCAGGGCAGAGTTGTGTGAGCAGGAGGACTGAG
 TACAAGAGGAGCCTGAAAAGCATCGAGGAGGGCAGTGTGACCTGCGGAAGCAGATGTCTCGTTGGAAG
 AGGAGCTGGACCAGGAGAGGAAGAAGTATGCCATGCTGGAGATCAAGCTCCGGAAGTCCGAGCGAGCCCG
 GGAGGATGCGGAGCGCAGGAACAGCTGCTGCAGAGGGAGATGGAGGAGTTCTTCTCCACCTGGGGAGC
 TTGACTACAGGGACCAAGGGTCCAGAGCCCCGGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

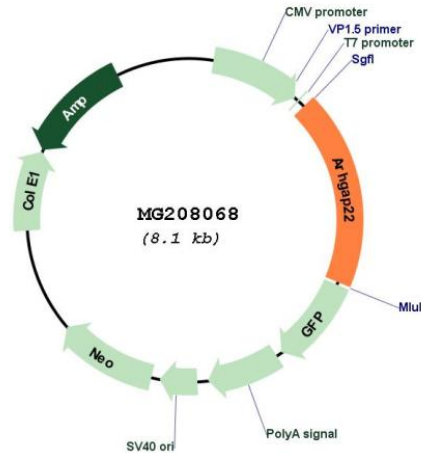
>MG208068 representing BC038272
 Red=Cloning site Green=Tags(s)

MASSQRDMEDWVQAIRRVIWAPLGRGIFGQRLDVTVHHERKFGPRLAPLLVEQCVDFIRERGLSEGLFR
 MPGQANLVRDLQDSFDCGEKPLFDRFLDEVQAHSDVNKMSVQNLATVFGPNILRPQIEDPVTIMEGTSLV
 QHLMTVLIRKHGQLFAATSLPEASPHGTVEWGSEEVTRDHRGEPGSPGLPTHRTSSLDGPAAVLSRTS
 PPRLGSQTGPAATSPGKMHLPVWKSFRQGSRSSEPKGVNSLEVP.IISSGGNWLINGLSSLRSHRR
 ASSGDRLKDTGSAQRLSTYDNVPPSSQFSSTASVASTSWSVASSSREASVSSCTACRASNSACSSLHTE
 WALEPSPLPSSSEGHQSPDLGHSLDEPCVSGSSEPNDPGSPTQAHVRRCRALQQVAELRAELCQQRTE
 YKRSLKSIIEGSADLRKQMSRLEEEELDQERKKYAMLEIKLRNSERAREDAERRNQLLQREMEEFFSTLGS
 LTTGTKGSRAPE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: BC038272

ORF Size: 1508 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

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]