

Product datasheet for **MC220625**

Arhgap22 (NM_153800) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Arhgap22 (NM_153800) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Arhgap22 |
| Synonyms: | B230341L19Rik; p68RacGAP; RHOGAP2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC220625 representing NM_153800
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCGACGGCTTCCAGCAAAGAAGAACCTTCGCTGCCAGATACTTCACTCGCTCGAAGACCTGG
 TGATGGGAGAACAGAGCCGGAGCCAGGGAGGCCCTGGTCCCCACAAGCTGGGCCCTGTACTCAAGGC
 CGGCTGGCTGAGGAAGCAGAGGAGTATCATGAAGAACTGGCAGCAGCGATGGTTTGTCTACGAGGGAT
 CAGCTCTTCTACTACAAAGACAAAGATGAAAGCAAGCCCCAGGGATTTATTTCTCTACAAGGGACACAAG
 TGACCGAACTTCTCCAGACCCTGAGGACCCAGGAAAGCACCTGTTTGGATTACGCCAGGTGGTCCAC
 AGAGCGGGAGAAGGTGCCAGCAACCCGGAGGCGCTCCTGCTCATGGCCAGCTCCAGCGGGATATGGAG
 GACTGGGTGCAGGCCATCCGCCGTGTCTTGGCCCCGCTGGGCAGAGGGATCTTTGGCCAGCGGCTAG
 AGGACACAGTGCACCATGAGCGGAAGTTTGGTCCCCGGCTGGCACCTCTGCTGGTGGAGCAGTGTGTGA
 CTTTCATCCGGGAGCGAGGACTCAGTGAAGAGGGCCTCTCCGGATGCCTGGCCAGGCCAACCTGGTGGG
 GACCTGCAGGATTCCTTCGACTGTGGGGAGAAGCCGCTGTTTGACAGCACACAGACGTGCACACAGTGG
 CCTCCCTGCTGAAGCTCTACCTTCGGGAGCTCCAGAGCCCGTCATCCCTTTTCGCCAGGTATGAGGACTT
 CCTCAGCTGCGCCAGCTGCTCACCAAGGACGAGGGGGAGGGGACTGTAGAGTTGGCTAAACAAGTGAGC
 AACCTTCTCAGGCCAACTACAACCTGCTCAGATACATCTGCAAGTTTCTGGATGAAGTGCAGGCCCACT
 CAGATGTCAATAAGATGAGTGTCCAGAACTTGGCAACTGTCTTTGGTCTAACATTTCTCGGCCACAGAT
 AGAGGATCCAGTAACCATCATGGAAGGCACGTCTCTGGTTCAGCATCTGATGACTGTCTCATCCGCAA
 CATGGACAGCTCTTTGCTGCAACCTCCCTTGAAGAACCTGCTTACCACATGGCACAGTAGAGTGGGGCT
 CTGAAGAGGTACCAGGGATCACCGGGTGAGCCTGGCAGCCCTGGCTTGGCCACACATAGGACTTCATC
 TCTGGATGGGCCAGCTGCAGCAGTGTCTAGAACTTCGCCCGCCGCTTGGCAGCCAACTGGCCCC
 GCAGCCACCAGCCCTGGGAAGAAGATGCACACTTTCCTGTCTGGAAGTCTTCTTTTCGGCAGCAGGGAT
 CCCGGTCAGAGAGCCCCAAAGGGGTCAACTCATCTTAGAGGTACCCATCATCTCCTCTGGTGGAACTG
 GCTCATAAACGGGCTATCGTCTCTTCGCAGCCACCGTCCGGCCTCATCGGGGACCGCTTAAAGATACA
 GGCTCGGCACAGAGACTCTCCACCTATGACAATGTGCCGCATCTAGCCAATTTCTAGCACTGCCAGCG
 TGGCCAGCAGTCATGGTCTGTAGCCTCGTCTCCCGAGAGGCCCTCTGTCAGCAGCTGCACAGCCTGCCG
 GGCCAGCAACTCTTCTGCCTGCAGCTCCTTACACACCGAGTGGGCTCTCGAGCCCTCTCCTCTCCCAGC
 AGCAGTGAGGGCCACCAGTCCCCGACCTGGGCCACAGCCTGGATGAGCCATGTGTGGGAGTGGCAGCA
 GTGAGCCCAATGACCCAGGCAGCCACACAGGCCATGTTTCGCCGCTGCCGGGCTCTCCAGGGCCAGGT
 GGCCGAGCTCAGGGCAGAGTTGTGTGAGCAGAGGACTGAGTACAAGAGGAGCCTGAAAAGCATCGAGGAG
 GGCAGTGTGACCTGCGGAAGCAGATGTCTCGGTTGGAAGAGGAGCTGGACCAGGAGAGGAAGAAGTATG
 CCATGTCTGGAGATCAAGCTCCGGAACCTCGGAGCGAGCCCGGGAGGATGCGGAGCGCAGGAACCAGCTGT
 GCAGAGGGAGATGGAGGAGTTCTTCTCCACCCTGGGGAGCTTGACTACAGGGACCAAGGGGTCCAGAGCC
 CCGGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_153800

Insert Size: 2109 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).

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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: | <ol style="list-style-type: none">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_153800.4 , NP_722495.3 |
| RefSeq Size: | 2598 bp |
| RefSeq ORF: | 2109 bp |
| Locus ID: | 239027 |
| UniProt ID: | Q8BL80 |
| 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] |