

Product datasheet for MC224608

Arhgap35 (NM_172739) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arhgap35 (NM_172739) Mouse Untagged Clone
Tag: Tag Free
Symbol: Arhgap35
Synonyms: 6430596G11Rik; AI841135; Grlf1; mKIAA1722; p190A; p190RhoGAP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224608 representing NM_172739
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATGATGGCAAGAAAGCAAGATGTCCGCATCCCCACCTACAACATCAGTGTGGTGGGATTGTCAGGCA
 CTGAGAAGGAGAAAGGCCAGTGCAGCATTTGGGAAGTCTTGTCTGTGTAACCGCTTTGTGCGCCCAAGTGC
 TGATGAGTTTCACCTGGACCACACTTCTGTCTTAGCACCAGTGACTTTGGTGGGCGGGTGGTCAATAAT
 GACCACCTTCTGTACTGGGAGAAAGTTAGCCGCTCCCTGGAGGATTGTGTGGAATGTAAGATGCACATTG
 TGGAGCAGACTGAGTTTATTGACGATCAGACTTTTCAACCTCATCGAAGCACGGCACTGCAGCCCTACAT
 CAAGAGAGCCGCAGCCACCAAGCTTGCTTCAGCTGAAAAACTCATGTATTTTGCAGTGCAGCAGTGGGA
 CTGGAGCAAGACTTTGAGCAGAAACAGATGCCAGATGGGAAGCTGCTGGTTGACGGTTTCCTTCTGGGCA
 TTGATGTTAGCAGGGGCATGAACAGGAACCTCGATGATCAGCTCAAATTTGTCTCCAATCTTACAATCA
 GCTTGCAAAAAACAAAAAGCCATAGTGGTAGTCTGACTAAGTGTGATGAGGGCGTTGAGCGGTACATT
 AGAGATGCACATACTTTTGCCTTAAGCAAAAAGAACCTCCAGTTGTAGAGACCTCTGCAAGGTTCCAATG
 TGAATGTGGACTTGGCTTTCAGCACCTTAGTGCAACTCATTGATAAGAGTCGAGGGAAGCAAAAAATCAT
 CCTTACTTTGAAGCTCTCAAGCAGCAGAGTCAGCAGATAGCTACAGCAAAGGACAAGTATGAGTGGTTA
 GTGAGCCGCAATTGTGAAAAATCACAATGAGAACTGGCCGAGTGTAGCCGAAAGATGCAGGCCTCCCTG
 AGTACCAGGACTATGTCTACCTGGAAGGGACACAGAAGGCCAAGAAGCTTCTCCTGCAGCACATTACCCG
 CCTCAAGCATGAGCATATTGAGCGTCGGAGAAAGCTGTACCTGGCAGCTCTGCCATTGGCTTTTGAAGCC
 CTCATACCTAATCTAGATGAAGTGGACCACCTGAGCTGTATTAAGCAAAAAAGCTGTTAGAGACCAAGC
 CAGAGTTCTTAAAGTGGTTTGTGACTGAAGAAACACCATGGGATGCCACCAGCCACATTGACAACAT
 GAAAAATGAGCGGATTCCCTTTGACTTGTGATACTGTCCTGCTGAGCAGTTGTATGAGACCCACTTG
 GAGAAGCTGAGGAACGAGAGGAAGAGAGCTGAGATGCGAAGGGCTTCAAAGAAAACCTGGAGACCTCTC
 CTTTCATAACTCCTGGAAACCTTGGGAAGAAGCTCGTAGTTTTATTATGAATGAAGACTTCTACCAGTG
 GCTGGAAGAATCTGTGTACATGGACATCTATGGCAAGCACAAAAGCAGATTATAGACCGAGCAAAGGAA
 GAGTTCCAAGAGTTGCTTTGGAGTACTCAGAATTGTTTTATGAGCTGGAGCTGGACGCTAAGCCAGCA



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AGGAGAAGATGGGTGTCATCCAGGATGTTCTGGGCGAAGAGCAGAGATTTAAAGCATTGCAGAAGCTCCA
 AGCAGAGCGTGATGCCCTCATTCTGAAGCACATCCATTTTGTGTACCACCCGACGAAAGGAGACATGCCCA
 AGCTGTCCAGCTTGTGTAGATGCTAAGATTGAACACTTGATCAGTTCTCGCTTTATCAGACCATCTGATC
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 ATTTTAGTTAACAGAGAGGGGACACAAGTGGAGAGACTCTGCACAGCTTGATACAGCAAGTGCAGCAGA
 TTGCCAGCAAACCTCAGTGTGTCTTTCTTGATCCGGCTTCTGCTGGCATTGGTTATGGACGCAACATTAA
 TGAGAAGCAGATCAGTCAAGTCTGAAAGGACTCCTGGACTCCAAGCGCAACTTAAACCTGGTTAGCTCC
 ACTGCAAGTATCAAAGATTTGGCTGATGTGGACCTTCAATTGTCATGTGTCTGATGTGTGGTGTATCCCT
 TTAGTGACAGATGACGTTCTCTCTCTGCTGCAATCCAAACTTGTAATCTTCCCACTGTGGGAGCAG
 CAACTCTGTTTTACTTGAACCTCAATTGGACTACACAAGAAGCGCATTGAGCTGTCTGTTCTTTCATAC
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 AGGCCTCCTTGGAATGTTACGTGCCTTCTTTGTGAAGTGCAGGATATTATCCCATCCAGCTTGTGCG
 ACTCACTGATGGCGCTATAGATGTCCTAGACAATGACTTAAGTGCAGAGCAGCTAACAGAGGGAGAGGAA
 ATTGCACAAGAGATTGACGGGAGATTACAAGCATCCCTTGATAGCCAGCCCCAGCATAAACTTGAGCTCT
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 AACTTACAGGACTCAGAAGAAGTGTGGAGCCTCCATCATACCACCTGTTTCGGGAAGATGCGACATTGC
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 GAGCAATTTTGAAGTAACTGAACAACAAGTACCTCCCCAGTCAAACCAAAGCCTCCTGTGCATTTT
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 GCCCTGGATGCCTCAGGATGGTTTGATCCTTCTGACTACGCAGAGCCCATGGATGCTGTGGTCAAGCC
 AAGGAATGAGGAAGAAAACATATACTCGGTGCCCCACGACAGCACCAGGGCAAGATCATTACCATTGCG
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 AGCGAGGCCGCAAGGTATCTGCAAGTGAAGCCTGTGCTGTACAGGACAAGATGCACTCGCTGGGGCG
 GTTTGCTAGTTACCGTACCAGCTTCAAGTGTGGGAGTGTGATGAGCTGGGACCCATCCGAAAGAAAGAG
 GAGGACCAGGCATCCCAAGTTATAAAGGGGACAATGCTGTCCATATGAAACAGATGAGGACCCCA
 GGAGGAGGAATATCCTTGAAGTCTAAGAAGGAACACCAAGAAACCAAAGCCCAAACCCCGCCATCCAT
 CACAAAGGCAACCTGGGAGAGTAACTATTTGGGGTGCCCTTAACAACAGTGGTACTCCAGAGAAACCG
 ATACCCATTTTCATTGAAAGATGCATTGAGTACATCGAAGCCACAGGACTAAGCACTGAAGGCATCTACC
 GGGTCACTGGAACAAGTCAAGAAATGAAAGTTTGCAAAGACAGTTTGATCAAGACCACAATCTGGACCT
 GGCAGAGAAAGACTTCACTGTGAACACTGTGGCAGGGGCCATGAAGAGTTTTTCTCAGAGCTACCAGAC
 CCCCTGGTACCATACAGCATGCAGATTGACTTGGTGAAGCTCACAAAATCAACGACAGGGAACAGAAGC
 TGCATGCTCTGAAGGAAGTGTGAAGAAGTCCCGAAGGAAAACCATGAAGTCTTCAAATATGTCATCTC
 CCACCTGAACAAAGTCAAGCACAACAACAAGGTGAATCTTATGACCAGTGAAGCTGTCCATCTGCTTC
 TGGCCCACGCTGATGCGGCTGACTTCAAGCAGCATGGACGCGCTCACAGCCACGCGCTCCTACCAGCCA
 TCATCGAGCTCTTATCCAGCAGTGGCCCTTCTTCTTCTACAACCGGCCATCAGCGAGCCTCCAGGGGC
 TGGCCTGGCTCCCTTCAAGCATGGCTCCCACTGTTCCCTTCTCACCTTACACCTGCTACCAGTCAAG
 CCATCACCTCCCAAGTCACTCCTCAACCCCTCAGTCCCAATGCAGCCATTGCTGTCTCTCAGCTCC
 AAGCCGAACACACGCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_172739
Insert Size: 4500 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:	<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:	<u>NM_172739.4, NP_766327.3</u>
RefSeq Size:	8393 bp
RefSeq ORF:	4500 bp
Locus ID:	232906
UniProt ID:	<u>Q91YM2</u>
Cytogenetics:	7 A2
Gene Summary:	<p>Rho GTPase-activating protein (GAP). Binds several acidic phospholipids which inhibits the Rho GAP activity to promote the Rac GAP activity (PubMed:16971514). This binding is inhibited by phosphorylation by PRKCA (By similarity). Involved in cell differentiation as well as cell adhesion and migration, plays an important role in retinal tissue morphogenesis, neural tube fusion, midline fusion of the cerebral hemispheres and mammary gland branching morphogenesis (PubMed:11044403, PubMed:11283609, PubMed:18502760, PubMed:21945077). Transduces signals from p21-ras to the nucleus, acting via the ras GTPase-activating protein (GAP) (PubMed:16971514). Transduces SRC-dependent signals from cell-surface adhesion molecules, such as laminin, to promote neurite outgrowth. Regulates axon outgrowth, guidance and fasciculation (PubMed:11283609). Modulates Rho GTPase-dependent F-actin polymerization, organization and assembly, is involved in polarized cell migration and in the positive regulation of ciliogenesis and cilia elongation (PubMed:11044403, PubMed:26859289, PubMed:18502760). During mammary gland development, is required in both the epithelial and stromal compartments for ductal outgrowth (PubMed:21945077). Represses transcription of the glucocorticoid receptor by binding to the cis-acting regulatory sequence 5'-GAGAAAAGAACTGGAGAACTC-3'; this function is however unclear and would need additional experimental evidences (By similarity).[UniProtKB/Swiss-Prot Function]</p>