

Product datasheet for MC224103

Arhgap29 (NM_172525) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arhgap29 (NM_172525) Mouse Untagged Clone
Tag: Tag Free
Symbol: Arhgap29
Synonyms: 6720461J18Rik; A830014I19; AU040217; B130017I01Rik; C76601; Parg1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224103 representing NM_172525
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATTGCTCACAACAGAAAAAGGCAAAGAAAAAGCGTGTGGGCATCAGGCCAACCTTCTGCTGCTA
TTACAACCTCTGAAATGGGGCTCAAGTCCGTAAGTTCAGCTCCAGTTTTGATCCGGAGTACATCAAGGA
GCTGGTGAATGATGTCAGGAAGTCTCCCATATGTTGCTATATTTGAAAGAAGCTATTCTTTCAGACTGT
TTTAAAGAAGTCATTCATATCCGTCTGGATGAGCTTCTCCGTGTTTTAAAGTCGATATTGAGCAAGCATC
AGAACCTCAGCTCCGTAGATCTTCAGAGCGCTGCAGAGGTGCTCACTGCAAAAAGTAAAGCTGTGAACCT
TACAGAAGTTAATGAAGAAAAACAAAACGATATATTCGAGAAGTCTTTTCTCCATTGAAACATTGGCA
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CCAACAGTTTACAGTCCCTCTGTGACAGTGCCAACTCTATGATCCAGGTCAGGAGTACAGTGAATTCGT
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AGCTTGAAGAGGACAGGTGCTCCAACAGTGCAGACATGACAGGTCTTCTTTCTGTAAGATCATGGAAGTT
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CAACAGCTCCATTACCTCATAGCACATCTGAGGCGAGTGGTGGATCATGCAGAAGAGAACAAGATGAAT
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AACGTAGACTCAGACAAGTTTGGCAAGAACCCTGCCTTTGAAGGACTCCATAGAAAGGACAACCTCAATA
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CAGAGCGCAGGTCTCTGACTCCTGCCCGCCACTGCTGTGAGAGCAGCCAGAACACTGCAGCCCCAAC
CTGGACAACATTTTACAACCACCTAATCCACCTTCAGTGTGAGGGGACTGAGGAGAAAAACAGCATT
CCCTCAATAGCTGTACCTCCTGTCTGGTGCATGCTCCCAGATCCATGTGACAAAATCAGACCCAGACT
CAGAGGCCACATTGGCCTGTCTGTGCAGACAAGTGGTCAACCTAAAGAGAGCTCTGAGGAGCCTGCCCT
GCCTGAGGGGACTCCAACCTTCCAGAGACCAGACTAAAACGAATGCAGCAATTTGAAGACCTTGAAGAT
GAAATCCACAGTTTGTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_172525

Insert Size: 3801 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: [NM_172525.2](#), [NP_766113.1](#)

RefSeq Size: 5133 bp

RefSeq ORF: 3801 bp

Locus ID: 214137

UniProt ID: [Q8CGF1](#)

Cytogenetics: 3 G1

Gene Summary: GTPase activator for the Rho-type GTPases by converting them to an inactive GDP-bound state. Has strong activity toward RHOA, and weaker activity toward RAC1 and CDC42. May act as a specific effector of RAP2A to regulate Rho (By similarity). In concert with RASIP1, suppresses RhoA signaling and dampens ROCK and MYH9 activities in endothelial cells and plays an essential role in blood vessel tubulogenesis.[UniProtKB/Swiss-Prot Function]