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Product datasheet for RN212783

Arhgap29 (NM_001009405) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap29 (NM_001009405) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Arhgap29
Synonyms:	B130017i01rik; RGD1306185
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN212783 representing NM_001009405 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTAAGCATCAGAACCTCAATTCTGTAGACCTTCAGAACGCTGCAGAAACGCTCGCTTCGAAAGTGA AAGCTGTGAACTTTACAGAAGTTAATGACGAAAACAAAAACGATCTATTTCGAGAAGTCTTTTCCTCCAT TGAAACTCTGGCATTTACCTTTGGAAACATCCTCACAAACTTCCTTATGGGAGATGTAGGCAATGATTCG ATACTACGACTGCCTATTTCTCGAGAGAGTAAGTCCTTTGAAAACATTTCTATGGACTCAGTGGACTTAC CTCATGAAAAAGGAAACTTTTCTCCTATAGAACTAGACAACTTGCTGTTAAAGAACTCTGACTCTATAGA ACTGGCTTTGTCTTATGCTAAAACTTGGTCAAAATATACCAAGAACATAGTGTCCTGGGTTGAAAAAAAG CTCAACTTGGAATTGGAGTCCACTAGAAATATTGTAAAATTGGCAGAGGCAACTAGATCTAGCATTGGAA TACAGGAGTTTATGCCTTTGCAGTCTCTCTTTACCAACGCTCTCCTTAATGATATACACAGCAGTCACCT TTTACAACAGACAATCGCAGCTCTCCAAGCCAACAAATTCGTGCAGCCTCTACTTGGGAGGAAGAATGAA ATGGAGAAACAAAGGAAAGAAATAAAAGAACTTTGGAAGCAGCAGCAGAATAAATTGCTTGAAACAGAGA CGGCTCTTAAAAAGGCAAAACTGTTATGCATGCAACGGCAAGATGAATACGAAAAGGCAAAATCATCCAT GTTTCGAGCAGAAGAAGAGCAGCTGAGTTCAAGTGTTGGACTGGGAAAAAATCTCAACAAACTACTAGAA AAAAGGCGGAGATTGGAAGAAGAGGCGCTTCAAAAAGTAGAAGAAGCAAATGAGCACTACAAAGTCTGTG TAACAAATGTTGAAGAAAGACGGAATGATCTAGAAAATACGAAGCGAGAAATTTTAACACAGCTCCGGAC ACTTGTTTTCCAGTGTGACCTTACACTTAAAGCTGTAACAGTTAACCTCTTTCATATGCAGCAGCTTCAG GCTGCTTCCCTCGCCAACAGTTTACAGTCCCTCTGTGACAGTGCCAAACTCTATGATCCAGGTCAGGAGT ATAGTGAATTCGTGAAGGCTACAAGCTCAAGTGAATTAGAAGAAAAGGTTGACGGGAATGTAAACAAACA AATAGCCAGCAGTCCGCAGACATCTGGATATGAACCTGCTGACTCTTTAGAGGATGTTGCACGCCTCCCT GACAGCTGTCACAAACTTGAAGAGGACAGGTGTTCCAACAGTGCAGACATGACAGGTCCTTCTTTCATAA GATCGTGGAAGTTCGGGATGTTTAGTGACTCTGAGAGTACTGGAGGAAGCAGTGAGTCTAGATCTCTGGA TTCAGAATCTATAAGTCCAGGAGACTTTCATCGGAAACTTCCACGAACTCCATCCAGTGGAACCATGTCT TCTGCTGATGATCTAGATGAACGAGAGCCACCATCACCTTCAGAAGCTGGACCCAATTCCCTCGGAACAT

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CTAAAGAGAGCTCTGAGGAGCCCGGCCTGCCTGAGGGGACTCCAACCTGCCAGAGACCTCGACTAAAACG
AATGCAGCAGTTTGAAGACCTTGAAGATGAAATCCCACAGTTTGTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001009405

Insert Size: 3549 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_001009405.1, NP_001009405.1

RefSeq Size: 4076 bp

RefSeq ORF: 3549 bp

Locus ID: 310833

UniProt ID: Q5PQJ5

Cytogenetics: 2q41

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 (By similarity).[UniProtKB/Swiss-Prot Function]