

Product datasheet for **RN214009**

Arhgef28 (NM_001108542) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef28 (NM_001108542) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef28
Synonyms:	Rgnf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN214009 representing NM_001108542 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**C

ATGGAGCTGAGCTGCAGTGAAGTGCCTCTTTACGGACAGAGGACGGTCTATGCAAAGTTCGGCAAAAACG
TTTATCTTCTGAAGATGCGGAGTATTACTTTATTTATGATGGGTCGCATCAGAGGCACGTGGTGATTGC
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TCTGTGTGCCTCTGCTCAGAAGGGTATCCCGGTGACCATGGGCTCTGGCTCAGTGACCTATGTGGACA
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ACTGCTGACCCCGTTTGCCTGACAGCAGAAGCGCTGCCTGCCTTGGATGAGGAACTCGTGCTGGCTCTG
ACCCAACCTGGAGCTGCCTTTGGGTTGGACAGTCTGGGAAATTCCTCACTTGAAGTGTGTCTACACAGAG
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AGGAGTCAAGGCCTTGGAGCTACCTAATGAAGAGGCCACCACACCATTAGACTTAGCCTTGCATGGCGGA
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GCTCTTGATCAAGAAGCCAAGACAGAGAGCAACCATGCCTTCTGGAGCTGCGGAAACTGAAGAAGAGG
TTAGGAATCTGGAGTCTGGCAGATCACCTCAGAAGAGGAGGAGTGGACAGCTCGTCAAAAGCCAGGC
CGACGGGCCGAGTGAACAGGAAGACCAGGACCGCTAGTTTTGGATCACTCCTTTGATGGCCTCAAAAAG
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CCTGCATGTACCAACCCAGTTCTCACACTTCCAACCTTGAACCTTTCTTTTGGTCTCCATGGATTTGTAA
GGAGCAGAGTCATCTCAAGAAAAGAAGTTCTAGCCTGGATGCCCTCGTTGCCGACAGTGAAGAGGAAGGG



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CGTTCTGAGCCCCCATCTGCTATGCTGTCTGGCTCTCAGAGTTCCTCCAGAACTGGGCTCCCCGGCGGAG
 ATGAACTGGATTCTTTTGATGCGAACACCGAACCACTGTAACATCTCTAGGACCGAATCACTTCCCT
 GTCCAGCACTCTGCATTGCAAGGAGTCCCTGCTTCTGGGATCCGATCACGCTCTACTCTGCTCATCA
 CCAAAATCTCTTCAGGAAAAATCCCGGCTAGTGCAGGATTTACAGTGTGCAGTTCAGTGAAGAACAGA
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 AGTCCTCGGAACAAATCTAAGATGAAAAACAAGGACACTAAAGATAAAGAAAACTCAATCGACATCAGT
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 GAAGAAGAAGGAGGAAGGACAAGTGAGTCTGATGAAGAGAGGCGAAAGCTGACGCTAGAGTGGCCAAA
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 AGAGGCTGTTGGGATGTGGATCCCCGGCTCCAGGTGTGTAACGGACTTGGCGGTCTCTGATGCAGGGG
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 GCGTCTCTCTACAGCCTTCAGGCTGCCTTGACCATCCAGGACAGCCACATTGAGATCCACAAGTAGTT
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 CCCGTTACCTGGAAGAGCATCGTGAAGAGCTGGCCAACATCCACAAGCTCCAGTACCAGTTCCAACAAGA
 GCAGCGGCGTTGGCACCACATGTGACCAGCAACAGCGTGAGCAGGAGGCCAAGAGAGCTGGTGCAG
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 TCTCCGGGAGCAAAGAGGTAAAGGAATTAATCGAGCTGAGAGTTTGTGTATGAAAAATCATTTTTCC
 TCAATGACGCCTTACACACATGTCGTTAAACATCCAATAAACCAAAACCCATCAGGTGCCCTGGGA
 CGCTCACCCCCAGGTGGGTCTCATCTTGATTTGGCAAGGACTAGTGATAGTCAGATAGAAGTGAAGATG
 GACGTTTCTCAGCCTTCCGATGTCAACTCTGAACCTGGAACAACAGGGCTGGGCCCTCAGAGACCTGCTC
 GCCAAGAAAGCATCAAGGATTCTTGAAAAATGTTGCAGATTTGAACTCCTTCCAGACTGAATCCCCAGA
 TCCCCAGGACTCAATCAACGTGGCCCTCAGCCACAGACACTATAACAGAAGCAAACTAACTCCCCCG
 ATGGCGGCCGGACATGGTGGAGATGCTGGGATGGAGCTGAAGAGAACATTGTTTACCTCTGA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001108542

Insert Size: 5103 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_001108542.1, NP_001102012.1

RefSeq Size: 6195 bp

RefSeq ORF: 5103 bp

Locus ID: 361882

Cytogenetics: 2q12

Gene Summary: Functions as a RHOA-specific guanine nucleotide exchange factor regulating signaling pathways downstream of integrins and growth factor receptors. Functions in axonal branching, synapse formation and dendritic morphogenesis. Functions also in focal adhesion formation, cell motility and B-lymphocytes activation. May regulate NEFL expression and aggregation and play a role in apoptosis.[UniProtKB/Swiss-Prot Function]