

## Product datasheet for **RN211687**

### Arhgap24 (NM\_001012032) Rat Untagged Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                        |
| Product Name:      | Arhgap24 (NM_001012032) Rat Untagged Clone |
| Tag:               | Tag Free                                   |
| Symbol:            | Arhgap24                                   |
| Synonyms:          | DR-NR#2                                    |
| Vector:            | pCMV6-Entry (PS100001)                     |
| E. coli Selection: | Kanamycin (25 ug/mL)                       |
| Cell Selection:    | Neomycin                                   |



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**Fully Sequenced ORF:** >RN211687 representing NM\_001012032  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCTGAAGACCGAAATTCGGGGGACGCCCTTCAGGTGCCTTAGCATCAACTCTTTCATCCCCAAAA  
 CTACATACAGAAGAATCAAACGGTGCTTTAGTTTCCGGAAAGGTATTTTTGGACAGAACTGGAGGACAC  
 GGTCCGATATGAGAAGAGATACGGGAACCGGCTGGCGCCCATGCTGGTGGAGCAGTGCCTGGACTTCATC  
 CGACAGCGGGGGCTGAAGGAAGAGGGCCTCTCCGACTGCCCGCCAGGCAAACCTTGCAAGGAGCTCC  
 AGGATGCATTCGACTGTGGAGAGAAGCCCTCCTTCGACAGCAACACAGACGTCCACACTGTGGCATCCCT  
 CCTGAACTGTATCTCCGAGAACTCCAGAGCCGGTCGTTCTTACGCAAAGTACGAAGACTTTTTGTCC  
 TGTGCCACGCTGCTCAGCAAGGAGGAAGAAGCTGGCGTGAAGGAGCTAACGAAACAAGTGAAGAGTTTGC  
 CAGTGGTTAACTACAACCTCCTGAAGTACATTTGCAGGTTCTGGATGAAGTGCAGTCTATTCCGGAGT  
 TAACAAGATGAGCGCACAGAACTTGGCAACTGTCTTCGGTCTAACATCTGCGCCCAAAGTGGAAAGT  
 CCTTTAACCATCATGGAGGGCACTGTGGTGGTCCAGCAGTTAATGTCAGTGATGATCAGCAAACATGATC  
 GCCTTTCCCAAAGACACAGAGCCACAAGCAAGCCCAAGAAGGACCGAACAGCAATAACAACAGTGG  
 TCATAAGAAAGTACCATGGGTGAGTTACAGAACAAGAAAACAACAATACCAAGGAGAGTCCGGTCCAGA  
 CGGTGCTCTTGGGACAAGCCTGAATCCCCCAGAGAAGCAGCATGGACAACGGATCCCCACAGCTCTAT  
 CAGGGAGCAAACCAACAGCCCACGGAACAGTATCCACAAGCTGGATGTCTCCAGGAGCCCGCCTCTCAC  
 GGTCAAAAAGAACCAGCCTTCAATAAGGGCAGCGGATCGTACCAATGGGTCTTCAGCAGCAGCAAT  
 GCAGAAGGTGTGGAGAAAACCAAACTCCTAATGGGAGTTTACAAGCCAGAAGGACCTTTCCCTGA  
 AGATTCTGGTACCAAAATGGGTACTCATAGCGTACAGAATGGCACCGTGGCATGGGTATTTTGAACAC  
 TGACACACTAGGGAATTCCTTGAATGGCCGAGCATGAGTTGGTCCCAATGGCTACGTGACCCCTGAGA  
 GATAACAAGCAGAAGGAGCCCGGGAGAGTCAAGCCAGCACAACAGACTCTCCACTACGACAACGTCC  
 ACCAGCAGTTCTCCTTGTGAACCTCGACGACAAGCACAGCGTGGACAGTGCCACGTGGTCCACCTCCTC  
 CTGTGAAATCTCCTCCCGAGAACTCAAACCTGCGCTCCTTACCCTACGTGCCCGGAGCAAGAC  
 TTCTACGGCGGAACTTTGAGGACCCTGTTTTAGACGGCCCGCCTCAGGATGACCTTTCTCATCTGGGG  
 ACTATGAGAACAAGCGACCGCAGGAGCGTGGGGGGCCGAAGCAGCCGTGCCACGAGCAGCAGCGACAA  
 CAGCGAGACGTTCTCGGTAACACCAGCAGCAACCACAGTGCCTTACAGTTTAGTCTCCAGCCTGAAG  
 CAGGAGATGACCAAACAGAAGATCGAGTATGAGTCCAGGATAAAAAGCTTGAACAGCGGAACCTTGACTT  
 TGGAAACGGAAATGCTGAACCTCCATGACGAACCTGGATCAAGAGAGGAAAAGTTACCATTGATAGAAAT  
 CAAGATGAGAAAACGCGGAGCGCGGAAAGAGGATGCTGAGAAGAGGAACGACATGCTCCAGAAGGAAATG  
 GAGCAGTCTTCTCCACATTCGGAGACCTGACGGTGAACCCAGGAGAAGCGAGAGGGGAAACACAATCT  
 GGATCCAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001012032
- Insert Size:** 1971 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\\_001012032.1](#), [NP\\_001012032.1](#)

**RefSeq Size:** 2728 bp

**RefSeq ORF:** 1971 bp

**Locus ID:** 305156

**UniProt ID:** [Q5U2Z7](#)

**Cytogenetics:** 14p22

**Gene Summary:** Rho GTPase-activating protein involved in cell polarity, cell morphology and cytoskeletal organization. Acts as a GTPase activator for the Rac-type GTPase by converting it to an inactive GDP-bound state. Controls actin remodeling by inactivating Rac downstream of Rho leading to suppress leading edge protrusion and promotes cell retraction to achieve cellular polarity. Able to suppress RAC1 and CDC42 activity in vitro. Overexpression induces cell rounding with partial or complete disruption of actin stress fibers and formation of membrane ruffles, lamellipodia, and filopodia. Isoform 2 is a vascular cell-specific GAP involved in modulation of angiogenesis (By similarity).[UniProtKB/Swiss-Prot Function]