**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MC215871

## Arhgap1 (NM_146124) Mouse Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Arhgap1 (NM_146124) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Arhgap1 |
| **Synonyms:** | B230365D05Rik; C76222; Cdc42GAP; p50rhoGAP |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**Fully Sequenced ORF:**

>MC215871 representing NM_146124
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCCTCTCTCAGAGCTGCAAGATGACCTGACGCTGGATGACACCAGCCAAGCTCTGAACCAGTTGA
AGCTGGCCTCCATTGATGAGAAGAACTGGCCTTCTGATGAAATGCCAGACTTCCCCAAGTCAGATGACTC
CAAAAGCAGCTCTCCAGAACCTGTGACACACCTGAAGTGGGATGACCCTTACTATGACATTGCCCGGCAC
CAGATTGTGGAAGTAGCCGGTGATGATAAGTATGGGCGGAAGATCATTGTATTCAGTGCTTGCCGGATGC
CCCCCAGCCACCAGCTGGACCACAGCAAGCTCTTGGGGTATTTGAAACACACATTGGACCAGTATGTGGA
GAGTGACTACACACTCCTGTACCTGCACCATGGCCTGACCAGTGACAACAAGCCCTCCCTCAGCTGGCTA
CGGGATGCCTACCGAGAGTTTGACCGCAAGTACAAGAAGAACATCAAGGCTCTGTACATCGTGCACCCAA
CCATGTTCATCAAAACTCTGCTTATCCTCTTTAAGCCTCTCATCAGTTTCAAGTTTGGACGGAAGATCTT
CTACGTGAATTACCTGAGTGAGCTGAGCGAGCACGTGAAGCTGGAGCAGTTGGGGATCCCTCGCCAAGTG
CTCAAGTATGATGACTTCCTCAAATCCACACAGAAAAGCCCTGCAACAGCTCCCAAGCCCATGCCACCAC
GGCCCCCCCTGCCCAATCAGCAGTTTGGGGTCTCCTTACAGCACCTCCAGGAGAAAAGCCCAGGCCAGGA
CCCCATTCCCATTGTCCTCAGGGAGACCGTCGCCTACTTGCAGGCTCACGCTCTCACCACTGAGGGCATC
TTCCGGAGGTCTGCCAACACCCAGGTTGTCCGGGAAGTGCAGCAGAAATACAATATGGGGCTGCCGGTGG
ACTTTGACCAGTACAACGAGCTGCACTTGCCCGCTGTCATCCTCAAGACATTCCTTCGGGAGCTTCCTGA
ACCCTTGCTAACCTTTGACCTGTACCCCCATGTTGTGGGCTTCCTCAATATTGATGAAAGCCAGAGAGTG
GAAGTGACACAGCAGGTTCTCCAAACTCTGCCAGAGGAGAACTACCAGGTGCTTCATTTCCTGACTGCCT
TCCTGGTGCAGATATCTGCCCACTGTGACCAGAACAAGATGACCAACACTAACTTGGCTGTAGTCTTCGG
CCCTAACCTGCTCTGGGCTAAAGATGCTGCCATCACCCTCAAGGCTATCAATCCCATCAACACCTTCACT
AAGTTCCTCCTGGATCATCAAGGGGAATTGTTCCCCAGCACAGATGCCCAGGGGGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_146124

**Insert Size:** 1320 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_146124.4, NP_666236.3

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| | |
|---|---|
| **RefSeq Size:** | 3113 bp |
| **RefSeq ORF:** | 1320 bp |
| **Locus ID:** | 228359 |
| **UniProt ID:** | Q5FWK3 |
| **Cytogenetics:** | 2 E1 |
| **Gene Summary:** | GTPase activator for the Rho, Rac and Cdc42 proteins, converting them to the putatively inactive GDP-bound state. Cdc42 seems to be the preferred substrate (By similarity). [UniProtKB/Swiss-Prot Function]<br>Transcript Variant: This variant (2) differs in the 5' structure, resulting in a novel 5' UTR and the use of a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1. Variants 2 and 6 encode the same isoform. |

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