

Product datasheet for **SC318270**

ARHGAP10 (NM_024605) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ARHGAP10 (NM_024605) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ARHGAP10 |
| Synonyms: | GRAF2; PS-GAP; PSGAP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |

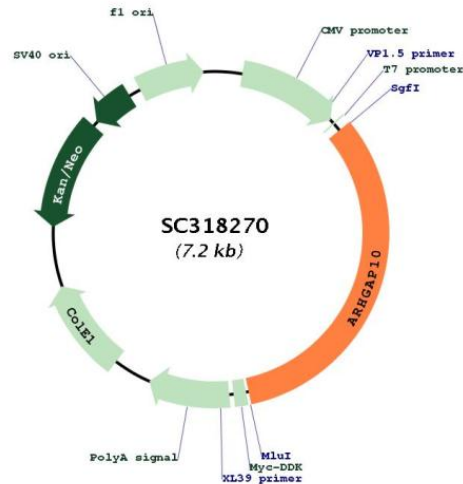


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Fully Sequenced ORF: >SC318270 representing NM_024605.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGGGGCTGCAGCCCCTGGAGTTCAGCGACTGCTACCTCGACAGCCCGTGGTTCGGGAGAGGATCCGC
GCTCAGGAAGCGGAACCTCGAGAGGACCAACAAGTTCATCAAAGAGCTCATTAAAGGACGGGAAGAACCTC
ATCGCTGCGACGAAAAGTCTGTCAAGTGGCCAGCGGAAGTTTGCTCATTCACTCAGAGACTTTAAGTTT
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GAGGCAGATATCCAAGTAGAGCAGAACCAGCAACTTCTATGAACTGTCTCTCGAGTATGTGTGAAG
CTGCAGGAAATCCAAGAAAGAAAGAAAGTTTGGTTTGTGGAACCTATGCTGTCAATTTTTCAGGGGATG
TTTACCTTCTATCATCAGGGCCATGAACCTGCCAAAGACTTCAATCACTACAAAAAGAACTACAGATC
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AAAAGCGGCAGCCAGAATCTCGTGTTAATGCGATCCATTTCTTGGTACACAACTGCCAGAGAAGAAAT
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ACTGTGGCAAACCTTAGGAGTGGTGGTTGGACCAACTCTGATGAGGCCACAGGAAGAACTGTCGCTGCC
CTCATGGACTTGAAGTTTCAAGATATTGTTGTGGAATCTTAATTGAAAACCATGAAAAGATTTTTCGG
ACGCCGCCGATACTACATTCCTGAGCCACCTGCCTGTCAGCATCACCCCAAATGCGCCACCAAGG
CAGTCGAAGAGACAAGGCCAGAGAACCAAGAGGCCCGTGCCGCTACAATCTTTGTCTGGAGCTGGAA
GATGGTGACAATCCTTACCCTTCCAAGGAGGACACCCCTACCAGCAGTCTGGACTCACTTCTCCCTCCCG
TCTCCCGTACTACAGCTGTCCCTGGGCTCCTGGACCAGACAAAAACCCTTCTGGCAGATGGAGGG
AGCTTTGGAGACTGGGCATCCACTATCCAGGCCAGACCCGATCGTCTATGGTCCAGTGGCTTAACCCA
CAGTCTCCAACCAACAAGCTCCAACCTCAGCTGTGACACCTCTTTCACCCGGTCTGCTCCCTTTCCCC
TTTTCTCTCTGCTACTGTAGCGGACAAGCCACCTGAAAGCATCCGAGTCGGAAGGCTCGAGCCGTG
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ACCTCCAGGGAACCTGGCTGGCTAGAAGGACTCTGAACGCAAGAGGGGGCTGATTCACAGAACTAC
GTCAAGCTGCTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_024605

Insert Size: 2361 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_024605.3](#)

RefSeq Size: 3073 bp

RefSeq ORF: 2361 bp

Locus ID: 79658

UniProt ID: [A1A4S6](#)

Cytogenetics: 4q31.23

Domains: SH3

MW: 89.4 kDa

Gene Summary: GTPase activator for the small GTPases RhoA and Cdc42 by converting them to an inactive GDP-bound state. Essential for PTKB2 regulation of cytoskeletal organization via Rho family GTPases. Inhibits PAK2 proteolytic fragment PAK-2p34 kinase activity and changes its localization from the nucleus to the perinuclear region. Stabilizes PAK-2p34 thereby increasing stimulation of cell death (By similarity).[UniProtKB/Swiss-Prot Function]