

## Product datasheet for **SC112115**

### **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:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_024605, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCTGCAGCCCCTGGAGTTCAGCGACTGCTACCTCGACAGCCCCTGGTTCCGGGAGAGGATCCGCG  
CTCACGAAGCGGAACCTCGAGAGGACCAACAAGTTCATCAAAGAGCTCATTAAAGACGGGAAGAACCTCAT  
CGCTGCGACGAAAAGTCTGTTCAGTGGCCAGCGGAAGTTTGTCTACTCAGAGACTTTAAGTTTGAG  
TTTATCGGTGATGCTGTGACAGATGATGAACGATGCATAGATGCTTCCTTACGTGAATTTCAAATTTT  
TGAAGAATCTGGAGGAACAGAGAGAAATTATGGCATTAAAGTGAAGTGAACCCCTGATTAACCCCTGGA  
AAAATTCAGAAAAGAGCAACTTGGAGCTGTAAAGGAAGAAAAAAGAAGTTTGACAAAGAGACAGAAAAG  
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ATATCCAAGTAGAGCAGAACCGCAACACTTCTATGAACTGTCTCTCGAGTATGTGTGAAGCTGCAGGA  
AATCCAAGAAAAGAAAGTGTGAGTTTGTGGAACCTATGCTGTCATTTTTTCAGGGGATGTTTACCTTC  
TATCATCAGGGCCATGAACTTGCCAAAGACTTCAATCACTACAAAATGGAACACAGATCAACATTCAGA  
ATACACGGAATCGATTTGAAGGAACAAGTCCAGAAAGTGAAGAGCTCATGAACAAAATCAGACAGAAATCC  
CAAGGACCACAAAACGAGCAAGTCAAGTTTACAGCCGAAGGCTACCTGTATGTCCAGGAAAAAGGCCCTGCT  
CCGTTTGGTCCAGTTGGGTCAAACACTATTGCATGTATCGAAAAAGCAGCAAAAGAAGTTCAACATGATCC  
CATTGAGCACAGATCTGGAGGGAAACTTGGGGACGGAGAGGTGTTCTTTTTGAAAGAATGTACCAAGAG  
GCATACTGACTCCATTGACAGAAGGTTTTGTTTTGACATAGAAGCTGCTGATCGGCCTGGCGTTTCTTG  
ACCATGACAGGCATTTTCCGAAGAGGAAAGGAAGCAGTGGTTGGAAGCTCTGGGTGAAAGGAAGCTCTGT  
CCCATAGTTTTAATACAGCCATCATCCCAAGACCAGAAGGAAATGCACAGTTGGATAAGATGGGGTTCAC  
AATTATCAGAAAATGCATCAGTCCGTTGAAACACGAGGTATAAATGACCAAGGATTGTACAGAGTTGTG  
GGGTGAGTTCAAAGTCCAGAGACTTCTGAGTATGTTGATGGATGTA AAAACATGCAATGAGGTGGACC  
TGGAGAATTCTGCAGATTGGGAAGTGAAGACAATAACAAGTGCCTTGAACAGTATTTGAGGAGTCTTCC  
AGAGCCTCTCATGACCTATGAGTTACATGGAGATTTTATTGTTCCAGCCAAAAGCGGCAGCCAGAAATCT  
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TGAAACACTTAACAAATGTTTCAAATCACTCCAAGCAGAACCTGATGACTGTGGCAAACCTAGGAGTGGT  
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ATTGTTGTGAAATCTTAATTGAAAACCATGAAAAGATTTTTCGGACGCCGCCGATACTACATTCCTG  
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CAAGAGGCCCGTGGCCGCTACAATCTTTGTCTGGAGCTGGAAGATGGTGACAATCCTTACCCTTCCAAG  
GAGGACACCCCTACCAGCAGTCTGGACTCACTTCCCTCCCGTCTCCCGTACTACAGCTGTCCCTGGGC  
CTCCTGGACCAGACAAAACACCTTCTGGCAGATGGAGGGAGCTTTGGAGACTGGGCATCCACTATCCC  
AGGCCAGACCCGATCGTCTATGGTCCAGTGGCTTAACCCACAGTCTCAACCACAACAAGCTCCAACCTCA  
GCTGTGACACCTTTTACCCCGGTGCTCCCTTTCCCTTTTCTCCTCTGCTACTGTAGCGGACAAGC  
CACCTGAAAGCATCCGCAGTCGGAAGGCTCGAGCCGTGTATCCGTGTGAAGCAGAACACAGCTCGGAATT  
ATCTTTTGAATAGGAGCAATTTTTGAGGATGTACAACTCCAGGGAACCTGGCTGGCTAGAAGGGACT  
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**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_024605 unedited  
 TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTTAAATTTAATCAGA  
 GATTTTATTTTGGAACTTCTGTAAAAAATAAAAGGCTATGACCTCTTCCCTTCATTG  
 GAAGGAATGGATTTTGGGCTCTAGCCTGTCTTGAATGAACTCAAATCAAATGTTGTGGT  
 GCTGGTTACTGGAGTAACACACAGGTTTCTGTTTCATGGTAAATAATTCCTGTCTTTAT  
 GCTTTGTTGGAAGATTTTTCGGACGCCGCCGATACTACATTCCCTGAGCCCACCTGCCT  
 GTCAGCATCACCCCAAATGCGCCACCAAGGCAGTCGAAGAGACAAGGCCAGAGAACC  
 GAGGCCCGTGGCCGTCTACAATCTTTGTCTGGAGCTGGAAGATGGTGACAATCCTTACCC  
 TTCCAAGGAGGACACCCCTACCAGCAGTCTGGACTCACTTTCTCCCGTCTCCCGTGAC  
 TACAGCTGTCCCTGGGCCTCCTGGACCAGACAAAAACCACCTTCTGGCAGATGGAGGGAG  
 CTTTGGAGACTGGGCATCCACTATGCCAGACCCGATCGTCTATGGTCCAGTGGCTTAACC  
 CACAGTCTCAACCAACAAGCTCCAACCTCAGCTGTGACACCTTTTACCCGGGTCGT  
 CCCCTTTCCCTTTTCTCCTCCTGCTACTGTAGCGGACAAGCCACCTGAAAGCATCCGCA  
 GTCGGAAGGCTCGAGCCGTGTATCCGTGTGAAGCAGAACACAGCTCGNAATTATCTTTTG  
 AATANNGAGCATTTNTTGAGATGTACAAACCTTCANNGAACCTGNNCTGCTAGAAGGNAC  
 TCTGAAACGCAGAGGGGCTGATTCACAACTACGTCAGCTGCTGTAGCTCT

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_024605 unedited  
 CGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATTACAGT  
 TTATTTTACATTTACAGAGACCTTGAGGCAAAAGGTGGTGTGGAAAACAGCACACGGGTG  
 AGGAGCACCGAGAAGCCTGTTACAAATACGCCAGTGCACGCTGCCAGTGCAGTGAGTGTG  
 GGGTCTGCAGGTGGCCGTCTAGGAAGGGCAGGCTTGAGACGCGGTCTCTGCTTCCCTC  
 TGACTTGAGACCATCTCCCTTGACCAACAGCAGCTTCTCCAAGCTAGGCTGCCACAGCC  
 AAGCACACACTCTGCAAACCTATCACTGCGAGTAGTACAGTTCCTTTAAATCGCAGCA  
 GCAGGTGCTCAGGGAGGAGAGGGAGCCAGGGTGGCTCTGGTGGCGTGACTGCCAGTGGAG  
 GCGACACAGGTGGCAGAAGGCTGCCCTCCCTCTCATTCTATATGCTGGATAATTAATAA  
 CACAAGTCCCAATACTTGACAAATGAAAAGTCCATTTTGGGAATCCTGACATTCCTCC  
 TGATCCACAATCACAGTCTGTGTGGTGGTCCCATCCCTGCCACCACCCCCCACCCC  
 CAGGGCTGACTGTGATGATGGTAACTCCCAAGTGTGGAGGTACCTGTGGGTGCAGCCCAG  
 AGCTCGGAGGAGGAAGACACTCTCTGCCCAAGGCAAGTCCCTGGGTGCCAGGTTTANCAG  
 GGGCTCTGAAGCCAGAAGCTACAACAGCTTGACGTAGTTCTGTGGAATCACCCCTCT  
 TTGCCGTTTCAGAGTCCCTTCTAGACACCCAAGTTCCTGGAAGGTTGTACATNCTAAAAA  
 ATGCTCTATTCAAAGATATTCCGAGCTGGTTCTGCTTAACACGATCACGGGTTGAGCT  
 TTCGACTGGGATGCTTTAGGGGTTGCCCTTATTCCGGAGAAAAGGGGAAGGGCCACC  
 GTTGAAGGTCAACT

**Restriction Sites:** NotI-NotI  
**ACCN:** NM\_024605  
**Insert Size:** 1450 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_024605.1</a> , <a href="#">NP_078881.1</a>
<b>RefSeq Size:</b>	3073 bp
<b>RefSeq ORF:</b>	660 bp
<b>Locus ID:</b>	79658
<b>UniProt ID:</b>	<a href="#">A1A4S6</a>
<b>Cytogenetics:</b>	4q31.23
<b>Domains:</b>	SH3
<b>Gene Summary:</b>	<p>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]</p>