

## Product datasheet for **SC115325**

### **RACGAP1 (NM\_013277) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RACGAP1 (NM_013277) Human Untagged Clone
Tag:	Tag Free
Symbol:	RACGAP1
Synonyms:	CYK4; HsCYK-4; ID-GAP; MgcRacGAP
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:**

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>OriGene sequence for NM_013277 edited
GAATTCGGCACGAGGGTGGGCGCGCGCTGCTCTGCCGTTGGGTGAGGCGCGGAGCGAAG
TGAAGGGTGGCCAGGTGGGCGCAGGCTGACTGAAAAAGATGGATACTATGATGCTGAAT
GTGCGGAATCTGTTTGGCAGCTGTGCGCCGGTGGAGATTCTCAGTGAAGGAAATGAA
GTCCAATTTATCCAGTTGGCGAAGGACTTTGAGGATTTCCGTA AAAAGTGGCAGAGGACT
GACCATGAGCTGGGAAAATACAAGGATCTTTTGATGAAAGCAGAGACTGAGCGAAGTGCT
CTGGATGTTAAGCTGAAGCATGCACGTAATCAGGTGGATGTAGAGATCAAACGGAGACAG
AGAGCTGAGGCTGACTGCGAAAAGCTGGAACGACAGATTGAGCTGATTGAGAGATGCTC
ATGTGTGACACATCTGGCAGCATTCAAATAAGCGAGGAGCAAAAATCAGCTCTGGCTTTT
CTCAACAGAGGCCAACCATCCAGCAGCAATGCTGGGAACAAAAGACTATCAACCATTGAT
GAATCTGGTTCCATTTTATCAGATATCAGCTTTGACAAGACTGATGAATCACTGGATTGG
GACTCTTCTTTGGTGAAGACTTTCAAACGAAGAAGAGAGAAAAGAGGCGCTCTACTAGC
CGACAGTTTGTGATGGTCCCCCTGGACCTGTAAGAAAACCTCGTTCCATTGGCTCTGCA
GTAGACCAGGGGAATGAATCCATAGTTGCAAAAACACTACAGTGACTGTTCCCAATGATGGC
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AAACAGTGACTTTACAACCTTGAACAGTGACTCCACCCTGAACAGCAGGCAGCTGGAG
CCAAGAATGAGACAGACAGTGTGGGCACGCCACAGAGTAATGGAGGGATGCGCCTGCAT
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AAATTTGGCAAATATCTCTGAAGTGTGAGACTGTGCTGTGGTCTCTCATCCAGAATGT
CGGGACCCTGTCCCCTTCCCTGCATTCCTACCCTGATAGGAACACCTGTCAAGATTGGA
GAGGGAATGCTGGCAGACTTTGTGTCCAGACTTCTCCAATGATCCCCTCCATTGTTGTG
CATTGTGTAATGAGATTGAGCAAAGAGGTCTGACTGAGACAGGCCTGTATAGGATCTCT
GGCTGTGACCCGACAGTAAAAGAGCTGAAAGAGAAAATTCCTCAGAGTGAAAACGTACCC
CTCCTCAGCAAAGTGGATGATATCCATGCTATCTGTAGCCTTCTAAAAGACTTTCTTCGA
AACCTCAAAGAACCTCTTCTGACCTTTTCGCCTTAACAGAGCCTTTATGGAAGCAGCAGAA
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CATACTAAAATGGATGTTGCCAATCTGGCTAAAGTCTTTGGCCCTACAATAGTGGCCAT
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GTTGAGCGCTGCTTTCCTTGCCTCTGGAGTATTGGAGTCAGTTCATGATGGTGGAGCAA
GAGAACATTGACCCCTACATGTCATTGAAAACCAAATGCCTTTTCAACACCACAGACA
CCAGATATTAAGTGAGTTTACTGGGACCTGTGACCACTCCTGAACATCAGCTTCTCAAG
ACTCCTTCATCTAGTTCCCTGTACAGAGAGTCCGTTCCACCCTACCAAGAACACTCCT
AGATTTGGGAGCAAAAGCAAGTCTGCCACTAACCTAGGACGACAAGGCAACTTTTTGCT
TCTCCAATGCTCAAGTGAAGTCACATCTGCCTGTTACTTCCCAGCATTGACTGACTATAA
GAAAGGACACATCTGACTCTGCTCTGCAGCCCTCCTGTACTCATTACTACTTTTAGCAT
TCTCCAGGCTTTTACTCAAGTTTAATTGTGCATGAGGGTTTTATAAAACATATATATC
TCCCCTTCTTCTCCTCAAGTCACATAATCAGCACTTTGTGCTGGTCAATTGTTGGGAG
CTTTTAGATGAGACATCTTCCAGGGGTAGAAGGGTTAGTATGGAATTGGGTTGTGATTC
TTTTGGGGAAGGGGTTATTGTXXXXXXXXXXXXXXXXXXCTCGAC
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_013277 unedited  
 TTCGGATTTGTATACGACTCATATAGGGCGGCCGCGATTCCGGCACGAGGGTGGGCGCGGC  
 GCTGCTCTGCCGTTGGGTGAGGCGCGGAGCGAAGTGAAGGGTGGCCAGGTGGGGCCAGG  
 CTGACTGAAAAAGATGGATACTATGATGCTGAATGTGCGGAATCTGTTTGAGCAGCTTGT  
 GCGCCGGGTGGAGATTCTCAGTGAAGGAAATGAAGTCCAATTTATCCAGTTGGCGAAGGA  
 CTTTGAGGATTTCCGTA AAAAGTGGCAGAGGACTGACCATGAGCTGGGAAATACAAGGA  
 TCTTTTGATGAAAGCAGAGACTGAGCGAAGTGTCTGGATGTTAAGCTGAAGCATGCACG  
 TAATCAGGTGGATGTAGAGATCAAACGGAGACAGAGAGCTGAGGCTGACTGCGAAAAGCT  
 GGAACGACAGATTGAGCTGATTCGAGAGATGCTCATGTGTGACACATCTGGCAGCATTCA  
 ACTAAGCGAGGAGCAAAAATCAGCTCTGGCTTTTCTCAACAGAGGCCAACCATCCAGCAG  
 CAATGCTGGGAACAAAAGACTATCAACCATTGATGAATCTGGTCCATTTTATCAGATAT  
 CAGCTNTGACAAGACTGATGAATCACTGGATTGGGACTCTTCTTTGGTGAAGACTNTCAN  
 ACTGAAGAAGAGAGANAAGAGGCGCTCTACTAGCCGACAGTTTGTGATGGTCCCCCTGG  
 ACCTGTAAGAAAACCTGTTCCATTGGCTCTGCAGTAGACCCAGGGAATGAATCCATAGN  
 TGCAAAAACCTACAGTACTGTTCCCAATGATGGCGGCCCCATCGAACTGTGTCCACTAT  
 TGAGACTGTGCCATATTGNACCAGNAGCCGAAGGAAACAGGTACTTTACACCTTGGAACA  
 GTGACTCCACCCCTGACAGAAGCAGCTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_013277 unedited  
 TAGAGTCGAGTTTTTTTTTTTTTTTTTTTTATTTTGAAAACTATTTACTTTTTTTTCCAATA  
 TTATCCCAAATAGGTGTTTTACAGATAAGGGTCAATACGAAGTCAAACATTCTACAGAAG  
 AAAATCGTTTTTACAGACATTAAGAATAATTTTAAACAGAAGAAAAGCTCACATCTATCT  
 AGATGTGGCTATGTTCCATGGGAAAAATTCAGCATCCAAAGTCAAAGAAAAAATGACT  
 GTAGCTTTTCTTACCACAAAATATTGACAATCTTCCCTTATAGCCTACTCTTTATTGTTA  
 GTTGGGATGCCAAAGGATGATATATTGACCTTTAGAAAGTTGGGCTCCACTGGACAAGGT  
 GGGGGTATGGGGGCCAAGCATCAGAATGAATTCATTTTAAAAGAAAACCTGGCTTTGAC  
 CCCAAATGAACCCAAAGTTCAGCCAGCGGCACATCAGAGATAAATACGAGTTGACTTTTC  
 ACATTTACAAGGTTGTGCCACTCAACACTATTAAGACCTAATCATCCAAATCAAAGCTA  
 CGCATACTCCCATCACTAGTTCCTGGTCTCAATGCATCCCATTTTTATGAAAGCTCCATAT  
 TATAGCTCAGTTCATAATGGGGAATGAGACCTTCTGGTCTTTAGAGGAGGCATCCTAAA  
 TCCTCTGGTCTATCCTTTTGCCTGCCTCCACTCCACCTGAGAAAGCTAATCT  
 TATCAGATTAGTAGGGTTTCTGCACTGNCTCCCGAAAATCAGTCTAAATGAACCTAAAGA  
 ACGATCTTCTTTGACCCGTTTTTGGCTTTAACCACAGGACCTTACCCCTTTCCCAAAG  
 AATCCCACCAATTCCTTTACCCCTTTACCCTTGAAAGAAGTTCATTAAGCCCCCAAT  
 GACACCCAAATGCTGATTTTTGGGATTGGGAAAGGAGGGGAAATATTAGTTTAATAAC  
 CCCTGCCCAATAACTGGTAAACCGGAAAGCTCAATTTTAGGTACCGAGGCGCAACAACC  
 AAGGTGCCTTTTAAACCAAGTGGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_013277

**Insert Size:**

3570 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).

<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_013277.2</a> , <a href="#">NP_037409.2</a>
<b>RefSeq Size:</b>	3237 bp
<b>RefSeq ORF:</b>	1899 bp
<b>Locus ID:</b>	29127
<b>UniProt ID:</b>	<a href="#">Q9H0H5</a>
<b>Cytogenetics:</b>	12q13.12
<b>Domains:</b>	RhoGAP, DAG_PE-bind
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes a GTPase-activating protein (GAP) that is a component of the centralspindlin complex. This protein binds activated forms of Rho GTPases and stimulates GTP hydrolysis, which results in negative regulation of Rho-mediated signals. This protein plays a regulatory role in cytokinesis, cell growth, and differentiation. Alternatively spliced transcript variants have been found for this gene. There is a pseudogene for this gene on chromosome 12. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (1) is the reference variant. Variants 1, 2, 3, 4, 5, 6, 7, 8, and 9 encode the same isoform (a).</p>