

## Product datasheet for **SC323158**

### **RACGAP1 (NM\_001126103) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RACGAP1 (NM_001126103) Human Untagged Clone
Tag:	Tag Free
Symbol:	RACGAP1
Synonyms:	CYK4; HsCYK-4; ID-GAP; MgcRacGAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

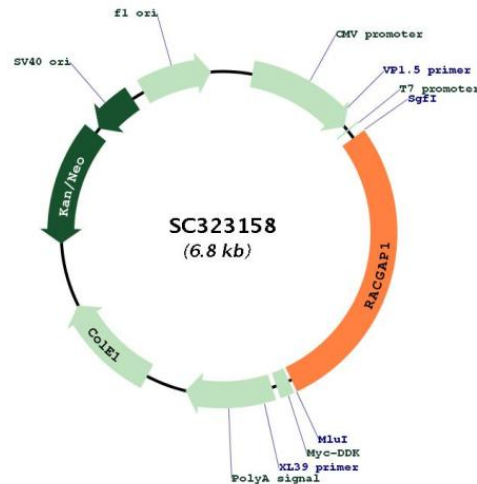


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Fully Sequenced ORF: >SC323158 representing NM\_001126103.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATACTATGATGCTGAATGTGCGGAATCTGTTTGAGCAGCTTGTGCGCCGGGTGGAGATTCTCAGT
GAAGGAAATGAAGTCCAATTTATCCAGTTGGCGAAGGACTTTGAGGATTTCCGTA AAAAGTGGCAGAGG
ACTGACCATGAGCTGGGAAATACAAGGATCTTTTGATGAAAGCAGAGACTGAGCGAAGTCTCTGGAT
GTTAAGCTGAAGCATGCACGTAATCAGGTGGATGTAGAGATCAAACGGAGACAGAGAGCTGAGGCTGAC
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CAACTAAGCGAGGAGCAAAAATCAGCTCTGGCTTTTCTCAACAGAGGCCAACCATCCAGCAGCAATGCT
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GTAGACCAGGGGAATGAATCCATAGTTGCAAAAACACTACAGTGACTGTTCCCAATGATGGCGGGCCATC
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CCTTGAACAGTACTCCACCCTGAACAGCAGGAGCTGGAGCCAAGAAGTGAAGACAGACAGTGTGGGC
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CGCCTGCTTTCTTGCCTCTGGAGTATTGGAGTCAGTTTATGATGGTGGAGCAAGAGAACATTGACCCC
CTACATGTCATTGAAAACCTCAAATGCCTTTTCAACACCACAGACACCAGATATTAAGTGAAGTTACTG
GGACCTGTGACCACTCCTGAACATCAGCTTCTCAAGACTCCTTCTAGTTCCTGTACAGAGAGTC
CGTTCCACCCTACCAAGAACACTCCTAGATTTGGGAGCAAAGCAAGTCTGCCACTAACCTAGGACGA
CAAGGCACTTTTTTGTCTCCAATGCTCAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001126103

**Insert Size:** 1899 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).

**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\\_001126103.2](#)

**RefSeq Size:** 3372 bp

**RefSeq ORF:** 1899 bp

**Locus ID:** 29127

**UniProt ID:** [Q9H0H5](#)

**Cytogenetics:** 12q13.12

**Protein Families:** Druggable Genome

**MW:** 71 kDa

**Gene Summary:** 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]  
Transcript Variant: This variant (2) lacks an exon and contains an alternate exon in the 5' UTR compared to variant 1. Variants 1, 2, 3, 4, 5, 6, 7, 8, and 9 encode the same isoform (a).