

Product datasheet for SC304820

SRGAP1 (NM_020762) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRGAP1 (NM_020762) Human Untagged Clone
Tag:	Tag Free
Symbol:	SRGAP1
Synonyms:	ARHGAP13; NMTC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304820 representing NM_020762. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC **GCGATCGCC**
ATGTCCACCCGAGCCGATTCAAGAAGGACAAAGAGATCATAGCCGAGTATGAAAGTCAAGTCAAAGAA
ATTCGAGCTCACTGGTAGAACACAAAATGCCTGGAGCAGCAAACGGAGATGCGAGTTCAGCTTCTC
CAGGATCTGCAAGATTTCTCCGAAAAAAGCTGAAATTGAGACGGAATATCCCGGAATCTAGAGAAG
TTAGCAGAAAGGTTTCATGGCAAAAACAAGAAGCACTAAGGATCATCAACAATAACAAGAAAGACCAGAAC
CTGTTGTCTCCAGTGAAGTCTGTTGCTCCTGAACCAAGTAAAGGAGAGAAAGCAAAGACCATGCA
ACCTTGAGTGACATCTATCTGAACAATGTGATTATGCGGTTTCATGCAGATAAGTGAGGATTCACCAGG
ATGTTTAAAAAGAGCAAAGAGATTGCATTCCAACCTTCATGAGGATTTAATGAAGGTTCTTAATGAGCTT
TATACGGTGATGAAAACATACCATATGTATCATGCAGAGAGCATCAGTGCAGAGAGCAAGCTGAAAGAG
GCCGAAAAACAAGAGGAAAAGCAAATTTGGGAGATCTGGTGATCCAGTCTTCCATATTCGACTAGAGGAG
AGACATCAACGGCGAAGCTCTGTAAAGAAAATTGAAAAATGAAAGAAAAAGACAAGCAAATATTTCA
GAAAATAAGCTAAAATCAATTAAGGCACGGAACGAATATCTCCTAACCTTGAAGCCACCAATGCCTCA
GTTTTCAAGTACTATATTCATGATCTTTCTGATTAATTGATTGCTGTGATCTTGCTACCATGCAAGT
CTGAACAGAGCCCTAAGAACATATCTGTCTGCGGAGTACAACCTTGAACCTCCAGACATGAGGGCTTA
GACATTATTGAGAAATGCAGTTGATAATTTAGAGCCAGGAGCGATAAGCAGAGATTCATGGAGATGTAC
CCTGCTGCGTTCTGTCCACCAATGAAGTTTGAGTTTCAGTCTCACATGGGTGATGAGGTGTGCCAGGTC
AGTGCCAGCAGCCAGTCCAGGCAGAGCTCATGCTCAGGTACCAACAGTTGCAGTCCCGCCTTGCCACG
CTCAAAATCGAGAATGAAGAGGTTAAGAAAACGACTGAAGCCACCTTGACAGCAGTACAAGATATGGTC
ACCATCGAGGACTATGATGTTTCTGAATGCTTCCAGCACAGTCGTTCCACAGAATCTGTGAAGTCCACT
GTCTCTGAAACCTACCTGAGTAAACCCAGCATCGCCAAGAGAAGAGCCAACCAGCAGGAACTGAACAG
TTCTACTTCATGAACTCAGAGAATATTTGGAAGGCAGTAATCTCATCACAAAACCTCAAGCCAAACAT
GACTTGCTGCAGAGGACCCTGGGAGAAGGTCATAGAGCTGAATATGACTACAAGGCCCTCAAATGTT
CCCCCTAAGCCCAAGAACACAGGAAGTCCAGGCCCGCTCACAGTATAATACTAAGTTGTTAATGGG



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GATTTGGAAACATTCGTCAAGGACTCAGGACAGGTTATCCCCTCATTGTGGAAAGCTGTATTCGGTTC
 ATCAATCTCTATGGTCTTCAGCATCAGGGGATTTTCAGAGTGTCTGGTCCCAGGTGGAAGTCAATGAT
 ATTAATAATTCATTTGAGAGAGGTGAAAATCCTTTGGCTGATGACCAGAGTAACCATGATATTAECTA
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 GATCTGATTTCTGTATCAGAAATAGATAATCTCTATGAGAGGGCGCTTACATCCGAAACTCCTCCTG
 ACTTTGCCAGGTCGGTCCTTATAGTGATGAGGTACCTCTTTGCCTTCTCAATCATCTACACAGTAC
 AGCGATGAGAATATGATGGACCCTTATAACCTGGCCATTTGCTTTGGCCCAACATTTGATGCCTGTCCCA
 GAAATACAGGATCAAGTGTCTTGCCAGGCACATGTGAATGAAATTATCAAACCATCATCATCCACCAT
 GAGACTATTTCCAGATGCTAAAGAGCTGGATGGCCCTGTTTATGAGAAATGTATGGCTGGAGATGAC
 TATTGCGACAGCCATACAGTGAGCAGGTACATTGGAGGAAGTGGACCAAGATGCTGGTACAGAGCCC
 CACACAAGTGAAGATGAATGTGAGCCAATAGAAGCAATAGCCAAGTTTGACTATGTTGGGCGGTCCGCC
 AGAGAATATCCTTCAAGAAGGGTGCCTCCCTGCTGCTGTATCACCGTGCATCTGAGGACTGGTGGGAA
 GGCAGGCACAACGGGATTGACGGCTGGTGCCTCACCAGTATATAGTGGTGCAGGATATGGATGATACG
 TTTTCAGACACTCTGAGCAAAAAGCCGACAGTGAGGCCAGCAGTGGCCAGTACGGAAGACAAGTCC
 TCATCCAAGGACATGAACTCCCCGACAGCCGTCATCCTGACGGCTATTTAGCCAGGCAACGAAAAAGA
 GGAGAGCCACCCCTCCAGTAAGGCGTCTGGCAGGACCAGTGTGGCCATTGCCCGCTCCACCCTCCA
 CATGCCCTTTCTAACTCCTCAGTTGACCTAGGGTCCCCAAGCCTTGCCAGTACACCCCGGGGCTGCTG
 CAGAACCGTGGCCTCAACAATGACAGTCTGAGCGGAGGCGCAGGCTGGCCATGGCAGCCTGACCAAC
 ATCAGCCGGCAGGACTCCCTCAAGAAGATCGACAGCCCTCCCATAGAAAGTCCACGTATCAGGGCAA
 TACACGGGCTTCAATGACCACAAGCCACTGGACCCAGAGACAATTGCTCAGGATATTGAAGAAACGATG
 AACACAGCTTTGAATGAACTCCGAGAATGGAGAGACAGAGCACAGCAAGCATGCCCTGATGTGGTG
 CTGGATACCCTGGAGCAAGTAAAAACTCTCCACCCCTGCCACTCCACGGAATCTCTCAGCCCTTTG
 CACAACGTTGCCCTCAGGAGCTCCGAGCCTCAGATTTCGACGTAGCAGCAGCTCCTCCAGTGACACAATG
 AGTACTTTCAAGCCTATGGTGGCACCCAGAATGGGCGTGACGCTGAAGCCTCCAGCCCTTAGGCCAAAA
 CCTGCTGTTCTTCAAAAAACAAATCCTACCATAGGACCTGCCCCACCTCCCAGGGTCCAACAGACAAG
 TCATGCACAATGTAA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_020762
- Insert Size:** 3258 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_020762.1](#)

RefSeq Size: 8475 bp

RefSeq ORF: 3258 bp

Locus ID: 57522

UniProt ID: [Q7Z6B7](#)

Cytogenetics: 12q14.2

Protein Pathways: Axon guidance

MW: 124.3 kDa

Gene Summary: The protein encoded by this gene is a GTPase activator, working with the GTPase CDC42 to negatively regulate neuronal migration. The encoded protein interacts with the transmembrane receptor ROBO1 to inactivate CDC42. [provided by RefSeq, Sep 2016]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.