

Product datasheet for **RC239566**

SRGAP2 (NM_001300952) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRGAP2 (NM_001300952) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SRGAP2
Synonyms:	ARHGAP34; FNBP2; SRGAP2A; SRGAP3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC239566 representing NM_001300952
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGTCTCAGCCAAATTCAAAAAGGATAAGGAGATCATAGCAGAGTACGATACTCAGGTCAAAGAGA
 TCCGTGCTCAGCTCACAGAGCAGATGAAATGCCTGGACCAGCAGTGTGAGCTTCGGGTGCAACTGTTGCA
 GGACCTCCAGGACTTCTTCCGAAAAGAAGGCAGAGATTGAGATGGACTACTCCCGCAACTGGAGAAGCTG
 GCAGAACGCTTCTGGCCAAGACACGCAGCACCAAGGACCAGCAATTCAGAAGGATCAGAATGTTCTCT
 CTCCAGTCAACTGCTGGAATCTCCTCTTAAACCAGGTGAAGCGGGAAAGCAGGGACCATAACCACCCTGAG
 TGACATCTACCTGAATAATATCATTCTCGATTTGTACAAGTCAGCGAGGACTCAGGAAGACTCTTTAAA
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 TGAAGACATATCACATGTACAATGCCGACAGCATCAGTGCTCAGAGCAAATAAAGGAGGCGGAGAAGCA
 GGAGGAGAAGCAAATGGTAAATCGGTAAGCAGGAGGACCGGCAGACCCACGCTCCCCGACTCCACG
 GCCAACGTTTCGATTGAGGAGAAACATGTCCGGAGGAGCTCAGTGAAGAAGATTGAGAAGATGAAGGAGA
 AGCGTCAAGCCAAGTACACGGAGAATAAGCTGAAGGCCATCAAAGCCCGAATGAGTACTTGTGGCTTT
 GGAGGCAACCAATGCATCTGTCTTCAAGTACTACATCCATGACCTATCTGACCTATTGATTGTTGTGAC
 TTAGGCTACCATGCAAGTCTGAACCGGGCTCTACGCACCTTCTCTCTGCTGAGTTAAACCTGGAACAGT
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 ATGGCTTCCCAGCTCTGTGCCAGCAGCCTGTCCAGAGTGAAGTGGTACAGAGATGCCAACAACTGCAGT
 CTCGCTTATCCACTCTAAAGATTGAAAACGAAGAGTAAAGAAGACAATGGAGGCCACCTGCAAACCAT
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 CAAAAATGCCTTTGAGAGAGGAGAGGACCCCTGGCTGGGGACCAGAACGACCATGACATGGATTCCATA
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 ACGACCAGGTGTCTGCAAGCCACGTTGAATGAGCTGATCAAAACCATCATATCCAGCATGAGAACAT
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 ATGACGAATGTGAGCCCATCGAGGCCATTGCCAAGTTGACTACGTGGCCGGACAGCCCCGAGAGCTATC
 CTTTAAAGAAGGGAGCATCCCTGCTGCTTTACCAGCGGGCTTCCGACGACTGGTGGGAAGGCCGACAAT
 GGCATCGACGGACTCATCCCCATCAGTACATCGTGGTCCAAGACACGTTGATATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239566 representing NM_001300952
 Red=Cloning site Green=Tags(s)

MTSPAKFKKDKEIIAEYDTQVKEIRAQLTEQMKCLDQQCELRVQLLQDLQDFFRKKAEIEMDYSRNLEKL
 AERFLAKTRSTKDQFKKQDQNLSPVNCWNLLLNQVKRESRDHTLSDIYLNNIIPRFVQVSEDSGRLFK
 KSKEVGQQLQDDLKMKVLNELYSVMKTYHMYNADSI SAQSKLKEAEKQEEKQIGKSVKQEDRQTPRSPDST
 ANVRIIEEKHVRRSSVKKIEKMKEKRQAKY TENKKA IKAIRNEYLLALEATNASVFKYYIHDLSDLIDCCD
 LGYHASLNRALRTFLSAELNLEQSKHEGLDAIENAVENLDATSDKQRLMEMYNNVFCPPMKFEFQPHMGD
 MASQLCAQQPVQSELVQRCQQLQSRLSTLKIENEEVKKTMEATLQTIQDI VTVEDFDVSDCFQYSNSMES
 VKSTVSETFMSKPSIAKRRANQQETE QFYFTKMEYLEGRNLITKLQAKHDLLQKTLGESQRTDCSLARR
 SSTVRKQDSSQA IPLVVE SCIRFISRHGLQHEGIFRVSGSQVEVNDIKNAFERGEDPLAGDQNDHDMDSI
 AGVLKLYFRGLEHPLFPKDI FHDLMACVTMDNLQERALHIRKVLLVLPKTTLIIMRYLFAFLNHL SQFSE
 ENMMDPYNLAICFGPSLMSVPEGHQVSCQAHVNELIKTII IQHENIFPSPRELEGPVYSRGGSMEDYCD
 SPHGETTSVEDSTQDVTAEHHTSDDECEPIEAI AKFDYVGR TARELSFKKGASLLLYQRASDDWWEGRHN
 GIDGLIPHQYIVVQDTLIS

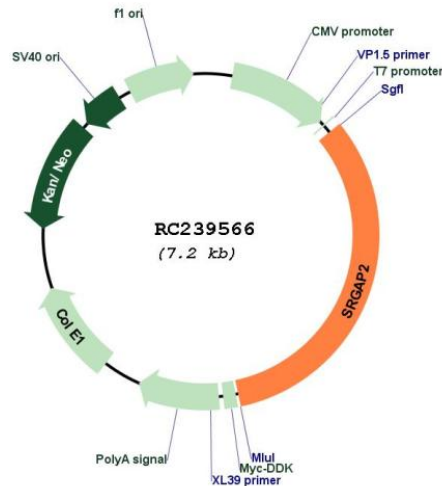
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001300952

ORF Size: 2367 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001300952.2](#)

RefSeq Size: 4932 bp

RefSeq ORF: 2370 bp

Locus ID: 23380

Cytogenetics: 1q32.1

Protein Pathways: Axon guidance

MW: 91.4 kDa

Gene Summary: This locus encodes a member of the SLIT-ROBO Rho GTPase activating protein family. The encoded protein stimulates GTPase activity of Rac1, and plays a role in cortical neuron development. This locus has several paralogs on human chromosome 1 resulting from segmental duplication. While this locus itself is conserved among various species, the paralogs are found only in the genus Homo, and not in the genomes of non-human great apes. Alternatively spliced transcript variants have been described for this locus. [provided by RefSeq, Jul 2014]