

Product datasheet for **RC238344**

SRGAP2B (NM_001271870) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRGAP2B (NM_001271870) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SRGAP2B
Synonyms:	SRGAP2L; SRGAP2P2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238344 representing NM_001271870
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGTCTCCAGCCAAATTCAAAAAGGATAAGGAGATCATAGCAGAGTACGATACTCAGGTCAAAGAGA
 TCCGTGCTCAGCTCACAGAGCAGATGAAATGCCTGGACCAGCAGTGTGAGCTTCGGGTGCAACTGTTGCA
 GGACCTCCAGGACTTCTTCCGAAAGAAGGCAGAGATTGAGATGGACTACTCCCGAACCTGGAGAAGCTG
 GCAGAACGCTTCTGGCCAAGACATGCAGCACCAAGGACCAGCAATTCAGAAGGATCAGAATGTTCTCT
 CTCCAGTCAACTGCTGGAATCTCCTCTTAACCAGGTGAAGCGGGAAAGCAGGGACCATAACCACCTGAG
 TGACATCTACCTGAATAATATCATTCTCGATTGTACAAGTCAGCGAGGACTCAGGAAGACTCTTTAAA
 AAGAGTAAAGAAGTCGGCCAGCAGCTCCAAGATGATTTGATGAAGGTCTGAACGAGCTCTACTCGGTCA
 TGAAGACATATCACATGTACAATGCCGACAGCATCAGTGCTCAGAGCAAATAAAGGAGGCGGAGAAGCA
 GGAGGAGAAGCAAATTTGGTAAATCGGTAAAGCAGGAGGACCGGCAGACCCACGCTCCCTGACTCCACG
 GCCAACGTTTCGATTGAGGAGAAACATGTCCGGAGGAGCTCAGTGAAGAAGATTGAGAAGATGAAGGAGA
 AGCGCCAAGCCAAGTACACGGAGAATAAGCTGAAGGCCATCAAAGCCCGGAATGAGTACTTGTGCTGCTT
 GGAGGCAACCAATGCATCTGTCTTCAAGTACTACATCCATGACCTATCTGACCTTATTGATTGTTGTGAC
 TTAGGCTACCATGCAAGTCTGAACCGGGCTCTACGCACCTTCTCTCTGCTGAGTTAAACCTGGAACAGT
 CGAAGCATGAGGGTCTGGATGCCATCGAGAATGCAGTAGAAAACCTGGATGCCACCAGTGACAAGCAGCG
 CCTCATGGAGATGTACAACAACGCTTCTGCCCCCTATGAAGTTTGAGTTTCAGCCCCACATGGGGAT
 ATGGCTTCCCAGCTCTGTGCCAGCAGCTGTCCAGAGTGAGCTGCTACAGAGATGCCAACAACTGCAGT
 CTCGCTTATCCACTCTAAAGATTGAAAACGAAGAGGTAAGAAGACAATGGAGGCCACCTGCAACCAT
 CCAGGACATTGTGACTGTGAGGACTTCGATGTGTCTGACTGCTCCAGTACAGCAACTCCATGGAGTCC
 GTCAAGTCCACGGTCTCTGAAACCTTCATGAGCAAGCCCAGCATTGCTAAGAGGAGGCCAACAGCAAG
 AGACAGAGCAGTTTTATTTCACAGTGAAGGAGTCTATGGCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238344 representing NM_001271870
 Red=Cloning site Green=Tags(s)

MTSPAKFKKDKEIIAEYDTQVKEIRAQLTEQMKCLDQQCELRVQLLQDLQDFFRKKAEIEMDYSRNLEKL
 AERFLAKTCSTKDQQFKKDQNVLSPVNCWNLLNQVKRESRDHTTSDIYLNNIIPRFVQVSEDSGRLFK
 KSKEVGQQLQDDLMKVLNELYSVMKTYHMYNADSI SAQSKLKEAEKQEEKQIGSVKQEDRQTPRSPDST
 ANVRIEEKHVRRSSVKKIEKMKEKRQAKYTENKLAIKARNEYLLALEATNASVFKYYIHDLSDLIDCCD
 LGYHASLNRLRTFLSAELNLEQSKHEGLDAIENAVENLDATSDKQRLMEMYNNVFCPPMKFEFQPHMGD
 MASQLCAQPVQSELLQRCQQLQSRLSTLKIENEEVKKTMEATLQTIQDIQDVTVEDFDVSDCFQYSNSMES
 VKSTVSETFMSKPSIAKRRANQQETE QFYFTVRECYGF

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001271870

ORF Size: 1374 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001271870.1](#), [NP_001258799.1](#)

RefSeq Size: 1835 bp

RefSeq ORF: 1380 bp

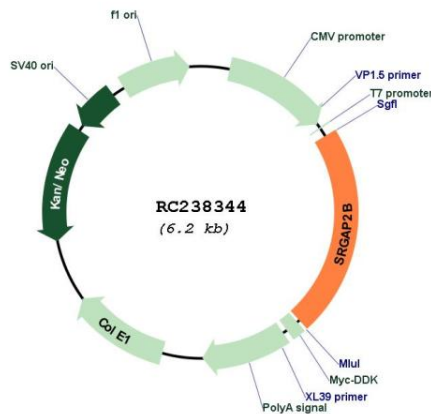
Locus ID: 647135

Cytogenetics: 1q21.1

MW: 53.9 kDa

Gene Summary: This locus encodes a member of the SLIT-ROBO Rho GTPase activating protein family. This human-specific locus resulted from incomplete segmental duplication of the SLIT-ROBO Rho GTPase activating protein 2 locus. The encoded protein lacks the GTPase activating protein domain compared to proteins encoded by SLIT-ROBO Rho GTPase activating protein 2. The functionality of the protein encoded by this locus has been questioned, as several normal individuals with homozygous deletions for this locus have been identified, and the expression of this locus appears to be much lower than the similar SLIT-ROBO Rho GTPase activating protein 2C (SRGAP2C) locus. The SRGAP2C locus has been shown to encode a protein that functions antagonistically to SLIT-ROBO Rho GTPase activating protein 2 in cortical neuron development. [provided by RefSeq, Dec 2012]

Product images:



Circular map for RC238344