

Product datasheet for **SC337460**

SRGAP2 (NM_001300952) Human Untagged Clone

Product data:

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



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001300952, the custom clone sequence may differ by one or more nucleotides

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ATGACGTCTCCAGCCAAATTCAAAAAGGATAAGGAGATCATAGCAGAGTACGATACTCAGGTCAAAGAGA
TCCGTGCTCAGCTCACAGAGCAGATGAAATGCCTGGACCAGCAGTGTGAGCTTCGGGTGCAACTGTTGCA
GGACCTCCAGGACTTCTCCGAAAGAAGGCAGAGATTGAGATGGACTACTCCCGCAACTGGAGAAGCTG
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TGACATCTACCTGAATAATATCATTCTCGATTTGTACAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG
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TGAAGACATATCACATGTACAATGCCGACAGCATCAGTGTCTCAGAGCAAATAAAGGAGGCGGAGAAGCA
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TTAGGCTACCATGCAAGTCTGAACCGGGCTCTACGCACCTTCTCTCTGTGAGTAAACCTGGAACAGT
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CTCGCTTATCCACTCTAAAGATTGAAAACGAAGAGGTAAGAAGACAATGGAGGCCACCTGCAACCAT
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TGATGGCCTCGTCACAATGGACAACCTGCAGGAGAGAGCTCTGCACATCCGAAAGTCTCCTAGTCTCT
GCCAAAACCACTCTGATTATCATGAGATACCTCTTGCCTTCTCAATCATTTATCACAGTTCAAGTGA
GAGAACATGATGGACCCCTACAACCTCGCCATCTGCTTCCGGCCCTCGCTAATGTGAGTCCAGAGGGCC
ACGACCAGGTGTCTGCAAGCCACGTTAATGAGCTGATCAAAAACCATCATATCCAGCATGAGAACAT
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ATGACGAATGTGAGCCATCGAGGCCATTGCCAAGTTGACTACGTGGGCCGGACAGCCGAGAGCTATC
CTTTAAGAAGGGAGCATCCCTGTGCTTACCAGCGGGCTTCCGACGACTGGTGGGAAGGCCGGCACAAT
GGCATCGACGGACTCATCCCCATCAGTACATCGTGGTCCAAGACACGTTGATATCCTGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001300952

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).

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_001300952.1](#), [NP_001287881.1](#)

RefSeq Size: 4932 bp

RefSeq ORF: 2370 bp

Locus ID: 23380

Cytogenetics: 1q32.1

Protein Pathways: Axon guidance

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]

Transcript Variant: This variant (4) uses an alternate in-frame splice site and differs in the 3' exon structure, result in a different 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (d) has a distinct C-terminus and is shorter than isoform a.