

Product datasheet for **SC329279**

SRGAP2 (NM_001170637) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRGAP2 (NM_001170637) Human Untagged Clone
Tag:	Tag Free
Symbol:	SRGAP2
Synonyms:	ARHGAP34; FNBP2; SRGAP2A; SRGAP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001170637, the custom clone sequence may differ by one or more nucleotides

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ATGACGCTCCAGCCAAATTCAAAAAGGATAAGGAGATCATAGCAGAGTACGATACTCAG
GTCAAAGAGATCCGTGCTCAGCTCACAGAGCAGATGAAATGCCTGGACCAGCAGTGTGAG
CTTCGGGTGCAACTGTTGCAAGGACTCCAGGACTTCTCCGAAAGAAGGCAGAGATTGAG
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ACCAAGGACCAGCAATTCAGAAGGATCAGAATGTTCTCTCCAGTCAACTGCTGGAAT
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CTGAATAATATCATTCTCGATTTGTACAAGTCAGCGAGGACTCAGGAAGACTCTTTAAA
AAGAGTAAAGAAGTCGGCCAGCAGCTCCAAGATGATTTGATGAAGTCTGAACGAGCTC
TACTCGGTGATGAAGACATATCACATGTACAATGCCGACAGCATCAGTGCTCAGAGCAA
CTAAAGGAGGCGGAGAAGCAGGAGGAGAAGCAAATGGTAAATCGGTAAAGCAGGAGGAC
CGGCAGACCCACGCTCCCTGACTCCACGGCCAACGTTTCGATTGAGGAGAAACATGTC
CGGAGGAGCTCAGTGAAGAAGATTGAGAAGATGAAGGAGAAGCGTCAAGCCAAGTACACG
GAGAATAAGCTGAAGGCCATCAAGCCCGAATGAGTACTTGCTGGCTTTGGAGGCAACC
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TTAGGCTACCATGCAAGTCTGAACCGGGCTCTACGCACCTTCTCTCTGCTGAGTTAAAC
CTGGAACAGTGAAGCATGAGGGTCTGGATGCCATCGAGAATGCAGTAGAAAACCTGGAT
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AACCAGCAAGAGACAGAGCAGTTTTATTTCAAAAAATGAAAGAGTACCTGGAGGGCAGG
AACCTCATACCAAGTTACAAGCCAAGCATGACCTTCTGCAGAAAACCTGGGAGAAAGT
CAGCGGACAGATTGCAGTCTAGCCAGGCGCAGCTCAACTGTGAGGAAACAGGACTCCAGC

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CAGGCAATTCCTCTGGTGGTGGAAAGCTGTATCCGGTTTATCAGCAGACACGGACTACAG
 CATGAAGGAATTTCCGGGTGTCAGGATCCCAGGTGGAAGTGAATGACATCAAAAATGCC
 TTTGAGAGAGGAGAGGACCCCTGGCTGGGGACCAGAACGACCATGACATGGATTCCATA
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 AACTCCATCAGCCGCACTCATCCCTGAAGAATCGGCTGGATAGTCCACAGATCCGGAAG
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 CGGCAGAGCAGTGTCAAACACACCCTGACGTGGTTCTGGACACCTTGGAGCCCCCAAA
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 AAGGACCCGAGCCGCCTTCCAGCGCAGCGCCAGTACTGCTGGGGACATCGCCTGCGCC
 TTCCGGCTGTCAAGTCTGTCAAGATGGCTGCCCGGTCAAACCACGACACAGGCC
 AAGCCACTGTCTTCCCCAAAACAATGCCACTAGCCCTGGTGTCAACTCATCAACTTCC
 CCACAGTCTACTGACAAGTCTTGTACTGTCTGA

- Restriction Sites:** Please inquire
- ACCN:** NM_001170637
- 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_001170637.1](#), [NP_001164108.1](#)

RefSeq Size: 6303 bp

RefSeq ORF: 3213 bp

Locus ID: 23380

UniProt ID: [O75044](#)

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 (3) uses an alternate in-frame splice site compared to variant 1. The encoded isoform (c) is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.