

## Product datasheet for **SC336238**

### **SRGAP2B (NM\_001271870) Human Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >SC336238 representing NM\_001271870.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACGTCTCCAGCCAAATTCAAAAAGGATAAGGAGATCATAGCAGAGTACGATACTCAGGTCAAAGAG
ATCCGTGCTCAGCTCACAGAGCAGATGAAATGCCTGGACCAGCAGTGTGAGCTTCGGGTGCAACTGTTG
CAGGACCTCCAGGACTTCTTCCGAAAGAAGGCAGAGATTGAGATGGACTACTCCCGCAACCTGGAGAAG
CTGGCAGAACGCTTCTGGCCAAGACATGCAGCACCAAGGACCAGCAATTCAAGAAGGATCAGAATGTT
CTCTCTCCAGTCAACTGCTGGAATCTCCTCTTAAACCAGGTGAAGCGGGAAGCAGGGACCATACCACC
CTGAGTGACATCTACCTGAATAATATCATTCTCGATTGTACAAGTCAGCGAGGACTCAGGAAGACTC
TTTAAAAAGAGTAAAGAAGTCGGCCAGCAGCTCCAAGATGATTTGATGAAGGCTCTGAACGAGCTCTAC
TCGGTCATGAAGACATATCACATGTACAATGCCGACAGCATCAGTGCTCAGAGCAAATAAAGGAGGCG
GAGAAGCAGGAGGAGAAGCAAATTGGTAAATCGGTAAAGCAGGAGGACCGGCAGACCCACGCTCCCT
GACTCCACGGCCAACGTTTCGATTGAGGAGAAACATGTCCGGAGGAGCTCAGTGAAGAAGATTGAGAAG
ATGAAGGAGAAGCGCCAAGCCAAGTACACGGAGAATAAGCTGAAGGCCATCAAAGCCCGGAATGAGTAC
TTGCTGGCTTTGGAGGAACCAATGCATCTGTCTTCAAGTACTACATCCATGACCTATCTGACCTTATT
GATCAGTGTTGTGACTTAGGCTACCATGCAAGTCTGAACCGGGCTCTACGCACCTTCCTCTCTGCTGAG
TTAAACCTGGAACAGTCGAAGCATGAGGCTCTGGATGCCATCGAGAATGCAGTAGAAAACCTGGATGCC
ACCAAGTGACAAGCAGCGCTCATGGAGATGTACAACAACGCTTCTGCCCCCTATGAAGTTTGAGTTT
CAGCCCCACATGGGGATATGGCTTCCAGCTCTGTGCCAGCAGCCTGTCCAGAGTGAGCTGCTACAG
AGATGCCAACAACTGCAGTCTCGCTTATCCACTCTAAAGATTGAAACGAAGAGGTAAAGAAGACAATG
GAGGCCACCCTGCAAACCATCCAGGACATTGTGACTGTCGAGGACTTCGATGTGTCTGACTGCTTCCAG
TACAGCAACTCCATGGAGTCCGTCAAGTCCACGGTCTCTGAAACCTTCATGAGCAAGCCAGCATTGCT
AAGAGGAGAGCCAACCAGCAAGAGACAGAGCAGTTTTATTTCACAGTGAGGGAGTGCTATGGCTTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001271870

**Insert Size:** 1380 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).

**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\_001271870.2

**RefSeq Size:** 6810 bp

**RefSeq ORF:** 1380 bp

**Locus ID:** 647135

**Cytogenetics:** 1q21.1

**MW:** 53.5 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]  
 Transcript Variant: This variant (1) encodes the longer isoform (1).