

Product datasheet for **RN207887**

Srgap2 (NM_001134958) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Srgap2 (NM_001134958) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Srgap2 |
| Synonyms: | RGD1566016 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >RN207887 representing NM_001134958
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGTCTCCAGCCAAATTCAAAAAGGATAAGGAGATCATCGCAGAGTATGATACTCAGGTCAAAGAGA
 TCCGGGCTCAGCTCACAGAGCAGATGAAATGCCTAGATCAGCAGTGCAGCTCCGGTGCAGCTGTTGCA
 AGACCTGCAGGACTTCTTCCGCAAGAAGGCTGAGATTGAGATGGACTACTCTCGAACCTGGAGAAGCTA
 GCCGAGCGCTTTCTAGCCAAGACACGAAGCACTAAGGACCAGCAATTTAAGAAGGACCAGAATGTTCTCT
 CTCCAGTCAACTGCTGGAACCTCCTCTTAAACCAGGTGAAGCGGGAGAGCAGGGATCATAACCACCTGAG
 TGACATCTACCTGAATAATAATTCTCGATTGTTCAAGTCAGCGAGGACTCAGGAAGACTCTTTAAA
 AAGAGTAAAGAAGTTGGCCAGCAACTCCAGGATGACTTGATGAAGTCTGAACGAGCTTTATTCGGTCA
 TGAAGACATATCACATGTACAATGCTGACAGCATCAGTGCTCAGAGCAAATAAAGGAAGCAGAGAAGCA
 GGAAGAGAAGCAAATGGCAAATCAGTAAAGCAAGAGGACCGGCAGACCCTCGTCCCCGACTCCACG
 GCCAACGTCCGCATTGAGGAGAAACATGTCCGGAGGAGTTCAGTGAAGAAGATCGAGAAGATGAAGGAGA
 AGCGACAAGCAAGTACACAGAGAACAAGCTGAAGGCCATTAAAGCCCGAATGAGTATTTATTGGCTTT
 GGAGGCAACCAACGCATCTGTCTTCAAGTACTACATCCATGACCTGTCTGATATTATTGATCAGTGTGT
 GACCTCGGCTACCATGCTAGCCTGAACCGGGCTCTACGCACTTTTCTGTCTGCTGAATTAATCTGGAAC
 AATCAAACATGAAGGTCTGGATGCTATTGAAAATGCAGTGAAAAACCTAGATGCCACCAGTGACAAGCA
 GCGGCTCATGGAGATGTACAATAATGTTTTCTGCCCCCTATGAAGTTTGAATCCAGCCCCACATGGGA
 GATATGGCCTCTCAGCTCTGTGCCCAGCAGCCTGTCCAGAGTGAAGTGGTGAAGACGCCAACCAACTGC
 AGTCTCGCTTATCCACTCTGAAGATCGAGAATGAAGAGGTGAAAAAGCAGATGGAGGCCACCCCTCGAG
 CATACAGGACATCGTGACTGTTGAGGATTTGATGTATCTGACTGCTTCCAGTATAGCAATTCATGGAG
 TCTGTCAAATCAACTGTCTCAGAAACGTTTATGAGCAAGCCTAGCATTGCTAAGAGGAGAGCTAACCAGC
 AGGAGACGGAACAGTTCTATTTACGAAAATGAAGGAGTACTTGGAGGTAGGAACCTCATCACTAAATT
 ACAAGCCAAGCATGACCTCCTGCAGAAGACCCTGGGAGAAAGTCAGCGGACAGACTGTAGTCTTGGCAGG
 CGAAGCTCAACCGTGAGGAAACAGGACTCCAGCCAGGCAATTCCTCTGGTGGTGAAGAGTGCATCCGGT
 TTATTAGCAGACATGGCCTACGACATGAGGGGTTTTCCGGGTGTCTGGTGCACAAGTGAAGTGAACGA
 CATAAAGAAGCCTTTGAGAGAGGAGAGGACCCCTGGTGGGACCAGAATGACCATGACATGGACTCC
 ATAGCTGGCGTCTCAAGCTTTACTTCCGGGGTGGAAACCCGCTCTCCCCAAGACATCTTCCATG
 ACTTGATTGCCTGTGTACAATGGACAACCTGCAAGAGAGAGCTGTGCATATCCGAAAGTCTTCTGGT
 CCTGCCCAAGCCCACTCTGATTATCATGAGATACCTCTTTGCCTTCTCAATCACTTATCACAGTTCAGT
 GAAGAGAACATGATGGACCCCTACAACCTTGCCATCTGCTTCCGGGCCCTCACTGATGTCAGTGCCAGAGG
 GCCACGACCAGGTGCTCTGTCAAGCCCAGTGAATGAACTGATCAAAACCATCATCATCAACATGAGAA
 CATTTTCCCAAATCCCAGGGAGCTGGAGGGTCCCATCTACAGCAGAGGAGGGAGCATGGAGGATTACTGT
 GACAGCACTCATGGAGAGACTATCTTCCGAAGACTCCACCCAGGACGTTACAGCGGAACACCACAAA
 GTGACGATGAGTGTGAGCCATTGAAGCCATTGCCAAGTTGACTACGTAGGCCGGACAGCCCGAGA
 GTCTTTCAAGAAGGGAGCATCCCTGCTGCTTTACCAGCAGCCTCTGACGACTGGTGGGAAGGCCGGCAC
 AATGGTATAGACGGACTCATCCCCATCAGTACATCGTAGTCCAAGACACCGAGGACGGTTCGTGGAGA
 GGTCCAGCCCAAGTCTGAGATTGAGGTGATGCTGAGCCACCTGAAGAAAAGGTGACAGCCAGAACGGG
 GGCCAGCTGTCCAGTGGGGTTCATGTAGCTGATTTTATCTTGCAAACATCAACAAAGGGATTCTCGT
 TCGCCCGCCATGAGCTGCCCTCCCCAAGAGGCACTCAGGCTATTGGAGA**ACTAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001134958
Insert Size: 2577 bp

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| 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: | <ol style="list-style-type: none">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: | <u>NM_001134958.1</u> , <u>NP_001128430.1</u> |
| RefSeq Size: | 3559 bp |
| RefSeq ORF: | 2577 bp |
| Locus ID: | 360840 |
| Cytogenetics: | 13q13 |
| Gene Summary: | RAC1 GTPase activating protein (GAP) that binds and deforms membranes, and regulates actin dynamics to regulate cell migration and differentiation. Plays an important role in different aspects of neuronal morphogenesis and migration mainly during development of the cerebral cortex. This includes the biogenesis of neurites, where it is required for both axons and dendrites outgrowth, and the maturation of the dendritic spines. Also stimulates the branching of the leading process and negatively regulates neuron radial migration in the cerebral cortex. May play a role for cognition, learning and memory. In non-neuronal cells, it may also play a role in cell migration by regulating the formation of lamellipodia and filopodia (By similarity).[UniProtKB/Swiss-Prot Function] |