

Product datasheet for **MC223445**

Srgap2 (NM_001081011) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Srgap2 (NM_001081011) Mouse Untagged Clone
Tag: Tag Free
Symbol: Srgap2
Synonyms: 9930124L22Rik; AI448945; FBP2; Fnbp2; srGAP3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223445 representing NM_001081011
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACGTCTCCAGCCAAATTCAAAAAGGATAAGGAGATCATCGCAGAGTACGATACTCAGGTCAAAGAGA
 TTAGGGCTCAGCTCACAGAGCAGATGAAATGCCTAGATCAGCAATGTGAGCTCCGGTGCAGCTGTTGCA
 GGACCTGCAGGACTTCTCCGCAAGAAGGCTGAGATTGAAATGGACTACTCTCGAAACCTGGAGAAGCTA
 GCCGAGCGCTTTCTAGCCAAGACACGAAGCACCAAGGACCAGCAATTTAAGAAGGACCAGAATGTTCTTT
 CTCCAGTCAACTGCTGGAACCTCCTCTTAAACCAAGTGAAGCGGGAGAGCAGGGATCATACCACCCTGAG
 TGACATCTACCTGAATAATATAATTCTCGATTGTTCAAGTCAAGCAGGACTCAGGAAGACTCTTTAAA
 AAGAGTAAAGAAGTTGGCCAGCAACTCCAAGATGATTTGATGAAAGTCTGAACGAGCTTTACTCGGTCA
 TGAAGACATATCACATGTACAATGCCGACAGCATCAGTGCTCAGAGCAAAGTGAAGGAAGCAGAGAAACA
 AGAAGAGAAGCAAATGGCAAATCAGTAAAGCAAGAGGACCGGCAGACCCTCGTCCCCTGACTCCACA
 GCCAATGTCCGATTGAGGAGAAGCATGTCCGGAGGAGCTCAGTGAAGAAGATTGAGAAGATGAAGGAGA
 AGCGACAAGCCAAGTACACAGAAAATAAGCTGAAGGCCATTAAGCCCGGAATGAGTATTTATTGGCTTT
 GGAGGCAACCAATGCATCTGTCTCAAGTACTATATCCATGACCTGTCTGATATTATTGATCAATGTTGT
 GACCTAGGCTACCATGCTAGCCTGAACCGGCTCTACGCACTTTCTATCTGCTGAATTAATCTGGAAC
 AGTCAAAACATGAAGGTCTGGATGCTATTGAAAATGCAGTAGAAAACCTAGATGCCACCAGTGACAAGCA
 ACGGCTCATGGAGATGTACAACAATGTTTTTGCCTCCATGAAATTTGAATTCAGCCCCACATGGGA
 GATATGGCTCTCAACTCTGTGCCAGCAGCCTGTCCAGAGTGAAGTGGTGCAGAGATGCCAACAGCTGC
 AGTCTCGTTATCCACTTGAAGATTGAGAATGAAGAGGTGAAAAGACAATGGAGGCCACCCTGCAGAC
 CATTCAAGACATTGTGACTGTTGAGGATTTTGTATCTGACTGCTCCAGTATAGCAATTCATGGAG
 TCTGTCAAATCAACTGTCTCTGAAACATTCATGAGCAAGCCAGCATTGCTAAGAGGAGAGCGAACCAGC
 AAGAGACGGAACAGTTTTATTTACGAAAATGAAGGAGTACTTGGAGGGTAGGAACCTCATCACAAGCT
 ACAAGCCAAGCATGACCTCCTGCAGAAAACCTGGGAGAAAGTCAGCGGACAGACTGTAGTCTTGCCAGG
 CGAAGCTCAACTGTGAGGAAACAGGATTCAGCCAAGCAATTCCTCTGGTGGTAGAAAGTGCATCCGGT



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TTATTAGCAGACATGGCCTACAACATGAGGGAATTTCCGGGTTTCTGGATCACAAGTAGAAGTGAACGA
 CATAAAAAACGCCTTTGAGAGAGGAGAGGATCCCTGGCTGGGGACCAGAATGACCATGACATGGACTCT
 ATAGCTGGTGTCTCAAGCTTTACTTCCGGGGCCTGGAACACCCGCTCTTCCCTAAAGACATCTCCATG
 ACTTGATTGCCTGTGTACAATGGACAACCTGCAAGAGAGAGCTGTGCATATCCGGAAAGTCTTCTGGT
 CCTGCCAAGCCCACTCTGATTATCATGAGATATCTCTTTCCTCAATCACTTATCACAGTTCAGT
 GAAGAGAACATGATGGACCCCTACAACCTTGCCATCTGCTTCGGGCCCTCACTGATGTCAAGTCCAGAGG
 GCCACGACCAGGTCTCTGTCAAGCCACGTGAATGAGCTGATCAAACCATCATCAACATGAGAA
 CATTTTCCCAAACCCAGGGAGCTGGAGGGTCCCATCTACAGCAGAGGAGGAAGCATGGAGGATTACTGT
 GACAGCACTCATGGAGAGACTACCTCTGTGAAGACTCCACCCAGGACGTTACAGCGGAGACCACACAA
 GCGATGATGAATGTGAGCCCATAGAAGCCATTGCCAAGTTTACTACGTAGGCCGGACAGCCGAGAAGT
 GTCTTTCAAGAAGGGAGCATCCCTGCTGCTTACCAGCGAGCTTCTGATGACTGGTGGGAGGGCCGGCAC
 AACGGTATAGATGGACTCATCCCCATCAGTACATCGTAGTCCAAGACACCGAGGACGGTGTCTGGAGA
 GGTCCAGCCCAAGTCTGAGATTGAGGTATGTCTGAGCCACCTGAAGAAAAGGTGACAGCCAGAACGGG
 GGCCAGCTGTCCAGTGGGGTCTGTAGCTGATATTTATCTTCAAACATCAACAAGCAAAGGAAGCGT
 CCAGAATCTGGGAGCATCAGAAAAGCATTTCGGAGTGACAGCCATGGGCTGGGCAGTTCTCTGACTGACT
 CCTCTCCCTGGGGTGGGGTCTAGCTGCCGTCATCTCCAGCCCATCATGAGCCAGAATCTCCCAA
 GGAAGGGCCAGATAAGTGTTCATCAGCGGCCATGGCAGCCTCAACTCTATCAGCCGCCACTCATCTTG
 AAGAACCAGGATGGACAGTCCGCAGATCCGGAAGACCGCTACGGCAGGAAGGTCAAAAAGTTTCAATAACC
 ATCGGCCCATGGACCCTGAAGTCATTGCACAGGATATTGAAGCAACAATGAACTCTGCCCTGAATGAGCT
 TCAAGAGCTAGAGCGGCAGAGCAGTGTCTAAGCACACACCTGATGTGGTTCTGGACACCTTGGAACTC
 AAGACCTCCCGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 CTGAGCCTGCCTCCAGCGCAGCGCTAGTACTGCTGGGGACATTGCTGCGCCTTCCGGCCTGTAAGTCT
 TGTCAGATGGCTGCTCCAGTCAAACCACGACCACACGGCCCAAGCCAAGTGTCTTCCCAAAAACAAC
 GCCACTAGCCCTGGTGTCAATTCTGCTTCCCAACAGGCCACTGACAAGTCTTGTACTGTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001081011
- Insert Size:** 3216 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_001081011.2](#), [NP_001074480.2](#)
- RefSeq Size:** 8040 bp

RefSeq ORF: 3216 bp

Locus ID: 14270

UniProt ID: [Q91Z67](#)

Cytogenetics: 1 E4

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.[UniProtKB/Swiss-Prot Function]