

Product datasheet for **MC223490**

Srgap1 (NM_001081037) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Srgap1 (NM_001081037) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Srgap1
Synonyms:	4930572H05Rik; Arhgap13
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223490 representing NM_001081037 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCACCCGAGCAGATTCAGAAGGACAAAGAGATCATAGCCGAGTATGAAAGTCAAGTCAAAGAAA
TCCGAGCCAGCTGGTAGAACAAACAAAATGCCTGGAGCAGCAGAGATGCGAGTTCAGCTGCTCCA
GGACCTACAAGATTTCTCCGAAAAAGCCGAAATTGAGACGGAATATTCTCGAACCTGGAGAAGCTG
GCAGAAAGGTTTCATGGCCAAAACAAGAAGCACTAAGGACCATCAACAGTTCAAGAAAAGACCAAAACCTGT
TGCTCCAGTGAAGTGGTATTTGCTCCTGAACCAAGTGAAGAGAGAGAGCAAAGACCACGCCACTTT
GAGTGACATCTATCTGAACAATGTCATCATGCGGTTTCATGCAGATAAGCGAGGACTCCACCCGGATGTTT
AAAAAGAGCAAAGAGATTGCGTTCAGCTTCACGAGGACCTCATGAAGGTTCTGAATGAGCTCTACACGG
TGATGAAAACCTACCACATGTACCACTCAGAGAGCATCAGTGCAGAGAGTAAGCTGAAAGAAGCCGAGAA
ACAAGAGGAGAAGCAGATTGGGAGGTCGGCGACCCAGTCTCCACATTAGGCTGGAAGAGAGGCATCAG
AGGCGGAGCTCTGTGAAGAAAATGAAAAATGAAGGAAAAGAGACAAGCAAAATATTGAAAAAATAGC
TGAATCGATCAAAGCCGCAACGAGTATCCTAACACTTGAAGCAACCAACGCCTCCGTGTTCAAGTA
TTACATCCATGATCTTTCAGACTTAATAGACTGCTGTGATCTCGGCTACCATGCAAGTCTGAACAGAGCC
CTCAGAACGTACCTCTCGGCGGAGTACAACCTTGAACCTCCAGACACGAAGGCTTAGACATCATTGAAA
ACGCTGTGGACAATTTAGAGCCAGGAGTGACAAGCAGAGGTTTCATGGAGATGTACCCTGCGGCATTCTG
CCCGCCAATGAAATTCGAGTTTCAGTCTCACATGGGTGATGAGGTGTGTCAGGTGAGCGCCAGCAGCCC
GTCCAGGCGGAGCTCATGCTCAGGAACCAACAGCTGCAGTCCCGACTGGCCACACTCAAGATCGAGAGCG
AGGAGGTCAAGAAAACGACAGAAGCCACCCTCCAGACGATCCAAGATATGGTCACCATTGAGGACTATGA
TGTGTCTGAGTGTTCAGCACAGCCGATCCACAGAGTCTGTGAAGTCCACTGTGTGAGAAACCTACCTG
AGTAAACCCAGCATCGCCAAGAGACGAGCAACCAGCAAGAAACGAGCAGTTCTACTTTCATGAACTTC
GAGAGTTCTGGAAGGCAGTAACCTCATCAAAAGCTGCAGGCTAAGCATGACTTCTGTCAGAGGACTCT
TGGAGAAGGCCATAGAGCTGAATATATGACTACAAGGCCTCCAAACGTCACCCCTAAGCCCCAGAAACAC
AGGAAGTCCAGGCCCGCTCCAGTATAATGCTAAGTTGTTAATGGGGATTTGGAGACATTCGTCGAAG



ACTCAGGCCAGGTTATCCCTCTCATTGTGGAAAGCTGCATCCGATTCATTAATCTCTATGGCCTTCAGCA
 CCAGGGGATTTTCAGAGTGTCTGGCTCCAGGTGGAAGTGAACGATATCAAGAATCTTTTCGAGAGAGGT
 GAGAACCCTCTGTCCGATGAGCAGAGCAACCACGATATCAACTCGGTGGCCGGCTGTGAAGCTGTACT
 TCCGAGGGCTGGAAAACCCCTCTTTCTAAGGAAAGGTTTACTGACCTGATTTCTGTATCAGAATAGA
 TAACCTCTATGAGAGGGCGCTCCACATCCGAACTCCTCCTGACCTTGCCAGGTGGTCTTATAGTG
 ATGAGGTACCTGTTTGCCTTCTCAATCACCTCCCAGTACAGTGACGAGAACATGATGGACCCTTACA
 ATCTGGCCATTTGCTTCGGCCCAACACTGATGCCGTTCCAGAGATACAGGACCAAGTGTCTTCCAGGC
 ACACGTGAACGAGATTGTGAAGACCATCATCCATCACGAGACTATTTTCCCAGATGCTAAAGAAGT
 GACGGCCCGTGTATGAGAAATGCATGGCCGGAGGCGACTACTGCGACAGCCCTACAGTGAAGCATGGTA
 CATTGGAGGAGGTGGACCAAGACGCCGGCAGAGCCCAACACAGTGAAGACGAGTGTGAGCCATCGA
 AGCCATAGCCAAGTTTGACTACGTGGGCGGTGAGTACAGAGCTGTCTTCAAGAAGGGTGCATCCCTG
 CTGCTGTATCACCGAGCCTCCGAGGATTGGTGGGAAGGCAGACACAACGGGATCGATGGCCTTGTGCCTC
 ATCAGTACATAGTTGTGCAAGATATGGACGATACATTTTCAGACACGCTGAGCCAAAAGGCCGACAGCGA
 AGCCAGCAGCGGGCCAGTCACTGAAGACAAGTCTCATCAAGGACATGAACTCCCCGACTGACCGCCAT
 TCTGATAGCTATTTAGCCAGACAAGAAAGAGAGGAGGCCACCCCTCCGGGAAGACGTCCCGGCAGGA
 CCAGCGATGGCCATTGTCCCCTGCATCCCCCGCATGCTCTGTCTAACTCCTCAATTGATCTGGGATCCCC
 AAACCTAGCCAGTCACCCAGGGGCTGTTGCAGAACCCTGGCCTCAATATGACAGTCTGAGAGGCGG
 CGCCGGCCGGCCACGGCAGCCTGACCAATATCAGCCGGCATGACTCCCTCAAGAAGATCGACAGCCCTC
 CTATCCGGAGGTCCACATCATCAGGGCAGTACACAGGCTTCAATGACCACAAGCCACTGGACCCCGAGC
 GATTGCTCAGGATATTGAGGAGACCATGAACACTGCTTTGAACGAACTCCGTGAACTCGAGAGGCAGAGC
 ACAGTGAAGCACGCCCCGATGTCGTGCTAGACACTTTGGAGCAAGTGAAGAAGTCCGCCACCCCTGCGA
 CTTCCACAGAATCACTCAGCCCACTGCACAATGTCGCCCTCAGGGGCTCAGAGCCACAGATTCGCCGGAG
 CACCAGTCTCTCAGCGAGACAATGAGTACTTTCAAGCCTATGGTGGCGCCCGGATGGGCGTCCAGCTG
 AAGCCCCAGCCCTTAGGCCAAAGCCTGCTGTTCTTCAAAAACAAACCTACGATGGGACCTGCCGCAC
 CTGCCAGGGTCCCACAGACAAGTCTTGCACGATGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001081037

Insert Size:

3258 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_001081037.2](#), [NP_001074506.1](#)

RefSeq Size: 7787 bp

RefSeq ORF: 3258 bp

Locus ID: 117600

Cytogenetics: 10 D2

Gene Summary: GTPase-activating protein for RhoA and Cdc42 small GTPases. Together with CDC42 seems to be involved in the pathway mediating the repulsive signaling of Robo and Slit proteins in neuronal migration. SLIT2, probably through interaction with ROBO1, increases the interaction of SRGAP1 with ROBO1 and inactivates CDC42 (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). 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.