

## Product datasheet for MR217119

### Srgap3 (NM\_080448) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Srgap3 (NM_080448) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Srgap3
Synonyms:	AI452337; Arhgap14; D130026O08Rik; Gbi; MEGAP; mKIAA0411; WRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217119 representing NM_080448 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGTCATCTCAAACAAAGTTCAAGAAAGACAAAGAGATCATTGCTGAATATGAAGCCAAATAAAAGAGA  
TCCGCACGCAGCTGGTGGAGCAGTTCAAATGCCTGGAGCAGCAGTCCGAGTCGCGGCTGCAGCTGCTGCA  
AGACTTGCAGGAGTTCTCCGCAGGAAAGCTGAGATTGAGCTGGAGTATCCCGAAGCTGGAGAAGCTG  
GCTGAGCGCTTCTCCTCAAAGATTGCGAGCTCCCGGGAGCACCAGTTCAAGAAGGATCAATACCTCTCT  
CGCCCGTGAAGTGTGGTATCTGGTACTGCATCAGACTCGCGGGAGAGCCGAGACCATGCCACCCTCAA  
CGACATCTTCATGAACAATGTCATCGTCCGCTCTCCAGATCAGTGAAGATGTCATCAGACTCTTCAAA  
AAGAGCAAAGAGATTGGCTGCAGATGCATGAGGAGCTGCTGAAGGTCACCAACGAGCTCTACACAGTCA  
TGAAAACCTACCACATGTACCATGCAGAGAGCATCAGTGCAGAAAGCAAGCTGAAGGAGGCTGAGAAGCA  
GGAGGAGAAACAGTTTAAACAAGTCAGGAGAGCTAAGCATGAACCTGCTCCGGCAGCAGGACAGCCCCAG  
CGCCGCAGCTCCGTGAAGAAGATTGAGAAGATGAAGGAGAAGAGGAGGCAAGTATTCTGAGAACAAGC  
TCAAGTGCACGAAGGCCGGAATGATTACCTGCTGAATCTGGCAGCCACCAACGCAGCTATCAGCAAATA  
CTACATCCACGATGCTCTGATCTCATCGATTGCTGTGATTTGGCTTTCACGCCAGCCTGGCCCCCACT  
TTTCGGACCTACCTCTCAGCAGAATATAACCTGGAGACCTCTGCCATGAGGGTCTGGAGTCTATAGAGA  
ATGCAGTGGACAACCTGGACTCCCGAGTGACAAGCACACAGTCATGGATATGTGCAGCCAGGCTTTTTG  
CCCTCCACTCAAGTTTGAAGTCCAGCCCCACATGGGGGATGAGGTCTGCCAGGTCAAGTGCACAGCAGCCT  
GTCCAGACAGAGCTGCTCATGCGGTACCACCAGCTGCAGTCCAGGCTGGCCACTCTCAAGATTGAGAATG  
AAGAGGTTTCGAAAACCTGGATGCCACCATGCAGACCTTACAGGACATGCTGACCGTGGAAAGACTTCGA  
TGTCTCTGACGCCTTCCAACACAGCCGATCTACAGAGTCCATAAAGTCAGCTGCTTCTGAGACCTACATG  
AGCAAAATCAACATCGCCAAAAGGAGAGCAACCAGCAGGAAACAGAAATGTTTTATTTTACAAAATTTA  
AAGAATATGTGAATGGCAGTAACCTCATACCAAGCTGCAAGCCAAGCATGACTTACTCAAGCAGACCT  
GGGTGAAGGGGAGAGAGCAGAGTGGCAGCAGCAGGCCCCCTGTCTTCCCCTAAACCACAGAAAATG



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AGGAGACCTAGGCCTCTTTCAGTGTATAGCCATAAACTCTTTAACGGCAGTATGGAAGCGTTCATTAAGG  
 ATTCAGGACAAGCTATACCACTTGTAGTTGAGAGCTGTATTTCGATTTCATCAATTTATATGGACTCCAGCA  
 GCAGGGGATCTTCAGAGTTCAGGGTCTCAGGTTGAAGTCAATGACATCAAGAATTCCTTTGAGAGAGGT  
 GAAGACCCCTCGTGGATGACAAAAATGAGCGAGATATCAATTCAGTTGCTGGTGTAAAACTGTATT  
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 GAACCCAGCTGACAGGGTGCACCAATCCAGCAGATCCTCATCACCTGCCCGCGTGGTCAATTGGTGC  
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 CACATCTCTGATTACGGCTTTGGGGGGTGTGGGCCGAGTGCAGTACGGTCCGACGGAGCAGCCATCC  
 CCAGGCGCCGAAGTGGGGGCGACACACAGCCACCCCGGGGCTTGGGTCCCAGCATAGACACGCCACC  
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 AAGAGAAGGATGGCGACTTTCGGGAGCGCTGGCAGTATCAACTACCCTGACAAGAAGGCGCTGACAGAAG  
 GGCTCTCCATGAGGTGACTTGGGTTCCACGCGACACAGCAGCCTAGGGGACCACAAGTCCCTGGAGGC  
 TGAGGCCCTGGCAGAAGACATCGAGAAGACCATGAGCACCCTCTGCATGAGTTGCGGAACTTGAGAGA  
 CAGAACACTGTCAAGCAGCACCAGATGTGGTGTGACACCCTGGAGCCCTGAAGAATCCACCAGGCC  
 CCATCAGCTCAGAGCCCGCCAGCCCCGTGCACACCATTGTATCCGAGACCCTGATGCTGATGCGTCCG  
 AAGCAGCAGCTCATCGACGGAGATGATGACCACCTTCAAGCCAGCCCTGTAGCTCGCTGGTGGTCC  
 CAGCTGCTCCGCCCCCATGCTCCGGTCCAGCCTGTGGTTCAGCACCGATCCAGCAGCAGCAGCAGCT  
 CAGGTGTGGGAGCCCGCAGTGACACCACGGAGAAGATGTTCCCTAATAGCTCCTCGGACAAGTCTGG  
 CACCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR217119 representing NM\_080448  
 Red=Cloning site Green=Tags(s)

MSSQTKFKKDKKEIIAEYEAQIKEIRTQLVEQFKLEQQSESRLQLLQDLQEFFRRKAEIELEYSRSLEKL  
 AERFSSKIRSSREHQFKDQYLLSPVNCWYLVLHQTRRESRDHATLNDIFMNNVIVRLSQISEDVIRLQFK  
 KSKEIGLQMHHEELKVTNELYTMKTYHMYHAESI SAESKLKEAEKQEEKQFNKSGELSMNLLRHEDRPQ  
 RRSSVKKIEKMKEKRQAKYSENKLCCTKARNDYLLNLAATNAAISKYYYIHDVSDLIDCCDLGFHASLART  
 FRTYLSAEYNLETSRHEGLDVIENAVDNLDSRDKHTVMDMCSQVFCPLKFEFQPHMGDEVQVSAQQP  
 VQTELLMRYHQLQSRATLKIENEEVRKTLDATMQLQDMLTVEFDVSDAFQHSRSTESIKSAASETYM  
 SKINIARRANQQETEMFYFTKFKKEYVNGSNLITKLQAKHDLKQTLGEGERAECGTRPPCLPPKPQKM  
 RRRPRPLSVYSHKLFNGSMEAFIKDSGQAIPLVVESEIRFINLYGLQQQGFIRVPGSQVEVNDIKNSFERG  
 EDPLVDDQNERDINSVAGVCLKYFRGLENPLFPKERFQDLISTIKLENPADRVHPIQQIILITLPRVVIVV  
 MRYLFAFLNHL SQYSDENMMDPYNLAICFGPTLMHIPDGQDPVSCQAHVNEVIKIIIHHEAIFPSPREL  
 EGPVYKCMAGGEEYCDSPHSEPGTIDEVDHDNGTEPHTSDEEVEQIEAIAKFDYVGRSPREL SFKKGS  
 LLLYHRASEDWEGRHNGVDGLIPHQYIVVQDMDDAFSDLSQKADSEASSGPLLDDKASSKNDLQSPTE  
 HISDYGGVMGRVRLRSDGAAIPRRRSGDTHSPPRGLGPSIDTPPRAAACPSPHKIPLSRGRIESPE  
 KRRMATFGSAGSINYPDKKALTEGLSMRSTCGSTRHSSLGDHKSLEAEALAEIEKTMSTALHELRELER  
 QNTVKQAPDVVLDLLEPLKNPPGPISSEPASPLHTIVIRDPDAAMRRSSSSSTEMMTTFKPAL SARLAGA  
 QL RPPMPVRPVVQHRSSSSSSSGVGS PAVTPTEKMFNPSSSDKSGTM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9099\\_f02.zip](https://cdn.origene.com/chromatograms/mm9099_f02.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_080448

ORF Size: 3297 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_080448.4](#), [NP\\_536696.4](#)

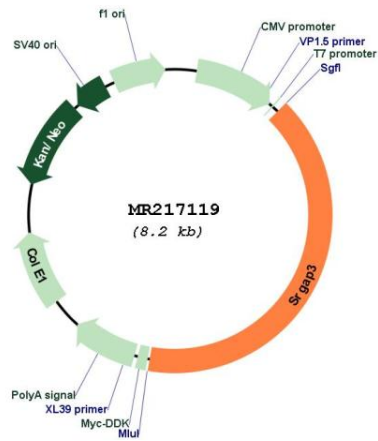
RefSeq Size: 8887 bp

RefSeq ORF: 3300 bp

Locus ID: 259302

UniProt ID: Q812A2  
 Cytogenetics: 6 E3  
 MW: 124.4 kDa  
 Gene Summary: GTPase-activating protein for RAC1 and perhaps CDC42, but not for RhoA small GTPase. May attenuate RAC1 signaling in neurons (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR217119