

Product datasheet for MR231539

Srgap1 (NM_001242411) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Srgap1 (NM_001242411) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Srgap1
Synonyms:	4930572H05Rik; Arhgap13
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231539 representing NM_001242411 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCACCCGAGCAGATTCAAGAAGGACAAAGAGATCATAGCCGAGTATGAAAGTCAAGTCAAAGAAA
TCCGAGCCAGCTGGTAGAACAAACAAAAATGCCTGGAGCAGCAGACAGAGATGCGAGTTCAGCTGCTCCA
GGACCTACAAGATTTCTCCGAAAAAAGCCGAAATTGAGACGGAATATTCTCGGAACCTGGAGAAGCTG
GCAGAAAGGTTTCATGGCCAAAACAAGAAGCACTAAGGACCATCAACAGTTCAAGAAAAGACCAAAACCTGT
TGCTCCAGTGAAGTGGTATTTGCTCCTGAACCAAGTGAAGAGAGAGAGCAAAGACACGCCACTTT
GAGTGACATCTATCTGAACAATGTCATCATGCGGTTTCATGCAGATAAGCGAGGACTCCACCCGGATGTTT
AAAAAGAGCAAAGAGATTGCGTTCAGCTTCACGAGGACCTCATGAAGGTTCTGAATGAGCTCTACACGG
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TTACATCCATGATCTTTACAGCTTAATAGACTGCTGTGATCTCGGCTACCATGCAAGTCTGAACAGAGCC
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 CACAGTGAAGCACGCCCCGATGTCGTGCTAGACACTTTGGAGCAAGTGAAGAATCGCCCCACCCCTGCG
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 CCTTCCAGGGTCCCACAGACAAGTCTTGACAGATG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231539 representing NM_001242411

Red=Cloning site Green=Tags(s)

MSTPSRFKKDKKEIIAEYESQVKEIRAQLVEQQKCLEQQTEMRVQLQLDLDQDFRKKAEIETEYSRNLKLE
 AERFMAKTRSTKDHQQFKDQNLSPVNCWYLLLNQVRRESKDHALSDIYLNIVIMRFMQISEDSTRMF
 KKSKEIAFQLHEDLMKVLNELYVMKTYHMYHSEISAESKLKEAEKQEEKQIGRSGDPVFHIRLEERHQ
 RRSSVKKIEKMKEKRQAKYSENKLSIKARNEYLLTLEATNASVFKYYIHDLSDLIDCCDLGYHASLNRA
 LRTYLSAEYNLETSRHEGLDIIENAVDNLEPRSDKQRFMEMYPAAFPPMKFEFQSHMGDEVQVSAQQP
 VQAEMLRNQQLQSRLATLKIESEEVKKTTEATLQTIQDMVTIEDYDVSECFQHSRSTESVKSTVSETYL
 SKPSIAKRRANQQETEYFYMKLREFLEGSNLITKLQAKHDLQRTLGEHRAEYMTTSGRRNSHARHQ
 DSGQVIPLIVESCIRFINLYGLQHOGIFRVSGSQVEVNDIKNSFERGENPLSDEQSNHDINSVAGVLKLY
 FRGLENPLFPKERFDLISIRIDNLYERALHIRKLLTLPRSVLIVMRYLFAFLNHL SQYSDENMMDPY
 NLAICFGPTLMPVEIQDQVSCQAHVNEIVKTIHETIFPDAKELDGPVYEKCMAGGDYCDSPYSEHG
 TLEEVDQDAGTEPHTSEDECEPIEAIKFDYVGRSARELSFKKGASLLL YHRASEDWWEGRHNGIDGLVP
 HQYIVVQDMDDFSDTL SQKADSEASSGPVTEKSSSKDMNSPTDRHSDSYLARQRKRGEP PPPGRRPGR
 TSDGHCLHPPHALSNSSIDLGSPNLASHPRGLLQNRGLNNDSPERRRRPGHGSLTNISRHDSLKIDSP
 PIRRSTSSGQYTGFDNHKPLDPETIAQDIEETMNTALNELRELERQSTVKHAPDVVLDLTLQVKNSTPA
 TSTESLSPLHNVALRGSEPPQIRRSTSSSEETMSTFKPMVAPRMGVQLKPPALRPKPAVLPKNTPTMGPA
 PSQGPTDKSCTM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_001242411.1, NP_001229340.1</u>
RefSeq Size:	7718 bp
RefSeq ORF:	3189 bp
Locus ID:	117600
UniProt ID:	<u>Q91Z69</u>
Cytogenetics:	10 D2
MW:	121.9 kDa
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]