

Product datasheet for **RG217925**

SRGAP3 (NM_001033117) Human Tagged ORF Clone

Product data:

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|---------------------------|--------------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | SRGAP3 (NM_001033117) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | SRGAP3 |
| Synonyms: | ARHGAP14; MEGAP; SRGAP2; WRP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG217925 representing NM_001033117 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCATCTCAAACAAAGTTCAAGAAAGACAAAGAGATCATTGCTGAATATGAAGCCAAATAAAAGAGA
TCCGCACGCAGCTGGTGGAGCAGTTCAAATGTCTGGAGCAGCAATCAGAGTCGCGACTGCAGCTGCTTCA
AGACCTCCAGGAGTTTTCCGCCGGAAGCTGAGATTGAGCTCGAGTACTCCCGCAGCCTGGAGAAGCTG
GCTGAGCGCTTCTCTCCAAAATCCGCAGCTCCCGGGAGCACCAGTTCAAGAAGGACCAGTACCTCTCT
CGCTGTGAAGTGTGGTATCTGGTTCTGCATCAGACCCGGCGGAGAGCCGAGACCATGCCACCCTCAA
TGACATCTTCATGAACAATGTCATCGTCCGCTCTCCAGATCAGTGAGGATGTCATCAGACTCTTCAA
AAGAGCAAGGAGATTGGCTGCAGATGCACGAGGAGCTCCTGAAGGTGACCAATGAGCTCTACACAGTCA
TGAAAACCTACCACATGTACCATGCAGAGAGCATCAGTGCAGAAAGCAAGCTGAAGGAGGCTGAGAAGCA
GGAGGAGAAGCAGTTCAATAAGTCAGGAGACCTCAGCATGAACCTGCTCCGGCAGCAGGACCCGCCAG
CGCCGAGCTCTGTGAAGAAGATTGAGAAGATGAAGGAGAAGAGGAGGCAAGTACTCTGAGAACAAGC
TGAAATGCACAAAGGCCGGAATGACTACTTGTCAATCTGGCAGCCACCAACGCAGCTATAAGCAAATA
CTACATCCATGATGTCTGTGATCGATTGCTGTGATTTGGGCTTCCATGCCAGCCTGGCCCCGACC
TTCCGGACCTATCTCAGCTGAATAACAACCTGGAGACCTCTGCCACGAAGGGCTGGATGTCATTGAGA
ATGCAGTGGACAACCTGGATCCCGAAGTGACAAGCACACAGTCATGGACATGTGCAATCAAGTCTTCTG
CCCTCCACTCAAGTTCGAGTTCAGCCCCACATGGGGGATGAGGTCTGCCAGGTACGCGCTCAGCAGCCC
GTCCAGACAGAAGTCTCATGCGTTATCACCAGCTGCAGTCCAGACTGGCCACCCTCAAGATAGAGAATG
AGGAGGTTAGGAAAACCTGGATGCCACCATGCAGACATTACAGGACATGCTGACTGTGGAGGACTTTGA
TGTCTCCGATGCCTTCCAACACAGTCGATCGACAGAGTCCGTCAAGTCCGCTGCCTCTGAGACCTACATG
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AAGAGTATGTGAATGGCAGTAACCTCATACCAAGCTGCAGGCCAAGCACGATTTACTCAAGCAGACCT
GGCGAAGGGAAAGAGCAGAATGCGGCACCACCAGAGGAAGAAGAAATGCTCGAACCGAACCAGGAT



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TCAGGACAAGCTATACCGCTTGTAGTCGAGAGCTGCATCCGTTACATCAATTTATATGGACTCCAGCAGC
 AGGGGATCTTCAGAGTGCCAGGATCTCAGGTGGAAGTCAATGACATCAAAAATTCCTTTGAGAGAGGTGA
 AGACCCCTTGTGGACGATCAAAATGAACGAGATCAATTCAGTCGCTGGTGTAAAACTGTATTTCC
 CGAGGACTGGAAAACCCACTCTTTCCTAAGGAAAGGTTTCAAGATTTGATATCTACTATTAACCTGGAGA
 ACCCAGCCGAGAGGGTGCACCAGATCCAACAAATCCTCGTCACCCCTCCCGCGTGGTATTGTGGTCAT
 GAGATACCTCTTCGCTTTCCTCAACCACCTCTCCAGTATAGCGACGAGAACATGATGGATCCCTACAAC
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 GGGACCTGTGTATGAAAATGCATGGCTGGAGGGGAAGAATATTGTGACAGCCCACACAGCGAGCCAGGG
 GCCATCGATGAAGTTGACCATGACAATGGCACTGAGCCTCATACCAGCGATGAAGAAGTGGAGCAGATCG
 AGGCTATTGCCAAGTTTGACTACATGGGCGGTCCCGCGTGAGCTATCCTTCAAGAAGGGGGCCTCGCT
 GCTCCTGTACCACCGCCTCGGAGGACTGGTGGGAGGGCCGACACACGGCGTGGATGGACTCATCCCC
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 AGGCCAGCAGTGGCCATTGCTGGATGACAAGGCCTTCCAAAAACGACCTCCAGTCCCCACGGAGCA
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 AGACGCCGAAGCGGGGGGACACACACAGCCCGCCCCGGGGCCTGGGCCCCAGCATAGACACACCACCC
 GGGCTGTGCCTGCCACGAGCCCCACAAAATCCCCCTCACCCGGGGGAGGATCGAGAGCCCTGAGAA
 GCGGAGGATGGCGACGTTTCGGGAGCGCTGGCAGCATCAACTACCTGACAAGAAGGCGCTCTCCGAAGGG
 CACTCGATGAGGTCGACCTGCGGTTCCACCAGGCACAGCAGCCTAGGGGACCACAAGTCCCTGGAGGCCG
 AGGCCCTGGCAGAAGACATCGAGAAGACCATGAGCAGCGCTTGCACGAGTTGCGGGAACTCGAGAGGCA
 GAACACGGTCAAGCAGGCCAGATGTGGTGTGGACACCCTGGAGCCCTGAAGAACCCGCCAGGCCCC
 GTCAGCTCGGAGCCCGCCAGTCCCCTTACACCATCGTCATCCGCGACCCCGATGCCCCATGCCCGCA
 GCAGCAGCTCTCCACCAGATGATGACCACCTCAAGCCAGCCCTGTCCGCCGCTGGCTGGCCGCCCA
 GCTCCGCCCGCCCCCATGCGGCCCGTGGCCGGTGGTCCAGCACCCGGTCCAGCAGCAGCAGCAGCTCG
 GGCGTGGCGACCCGGCCGTGACGCCACCAGAGAAGATGTTCCCAACAGCTCAGCGACAAAGTCGGGCA
 CCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217925 representing NM_001033117

Red=Cloning site Green=Tags(s)

MSSQTKFKKDKKEIIAIEYEAQIKEIRTQLVEQFKCLEQQSESRLQLLQDLQEFFRRKAEIELEYSRSLEKL
 AERFSSKIRSSREHQFKKQYLLSPVNCWYLVLHQTRRESRDHATLNDIFMNNVIVRLSQISEDVIRLFK
 KSKEIGLQMHEELLKVTNELYVMKTYHMYHAESISAESKLKEAEKQEEKQFNKSGDLSMNLRHEDRPQ
 RRSSVKKIEKMKEKRQAKYSENKLNKCTKARNDYLLNLAATNAAISKYYIHDVSDLIDCCDLGFHASLART
 FRTYLSAEYNLETSRHEGLDVIENAVDNLDSRSDKHTVMDMCNQVFCPPLKFEFQPHMGDEVQVSAQQP
 VQTELLMRYHQLQSRLATLKIENEEVRKTLDATMQTLQDMLTVEDFDVSDAFQHSRSTESVKSAASETYM
 SKINIARRANQQETEMFYFTKFEYVNGSNLITKLQAKHDLLKQTLGEGERAECGTTTRRRRNARTRNQD
 SGQAIPLVVEESCIRYINLYGLQQQGI FRVPGSQVEVNDIKNSFERGEDPLVDDQNERDINSVAGVLKLYF
 RGLNPLFPKERFQDLISTIKLENPAERVHQIQQILVTLPRVIVVMRYLFAFLNHL SQYSDENMMDPYN
 LAICFGPTLMHIPDGQDPVSCQAHINEVIKTIIHHEAIFPSPRELEGPVYEKCMAGGEEYCDSPHSEPG
 AIDEVDHDNGTEPHTSDEEVEQIEAIAKFDYMGSRPRELSFKKGASLLL YHRASEDWWEGRHNGVDGLIP
 HQYIVVQDMDDAFSDLSQKADSEASSGPLLDDKASSKNDLQSPTEHISDYGGVMGRVRLRSDGAAIP
 RRRSGDTHSPPRGLGPSIDTPPRAAACPSPHKIPLTRGRIESPEKRRMATFGSAGSINYPDKKALSEG
 HSMRSTCGSTRHSSLGDHKSLEAEALAEIDIEKTMSTALHELRELERQNTVKQAPDVVLDLLEPLKNPPGP
 VSSEPASPLHTIVIRDPDAAMRRSSSSSTEMMTTFKPALSARLAGAQLRPPMPRPVRPVVQHRSSSSSSS
 VGSPAVTPTEKMFNPSSADKSGTM

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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_001033117.3</u> |
| RefSeq Size: | 8905 bp |
| RefSeq ORF: | 3228 bp |
| Locus ID: | 9901 |
| UniProt ID: | <u>O43295</u> |
| Cytogenetics: | 3p25.3 |
| Protein Pathways: | Axon guidance |
| Gene Summary: | GTPase-activating protein for RAC1 and perhaps Cdc42, but not for RhoA small GTPase. May attenuate RAC1 signaling in neurons.[UniProtKB/Swiss-Prot Function] |