

Product datasheet for **RC224139**

SRGAP2 (NM_015326) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRGAP2 (NM_015326) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SRGAP2
Synonyms:	ARHGAP34; FNBP2; SRGAP2A; SRGAP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224139 representing NM_015326 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGACGTCTCCAGCCAAATTCAAAAAGGATAAGGAGATCATAGCAGAGTACGATACTCAGGTCAAAGAGA
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TGACATCTACCTGAATAATATCATTCTCGATTTGTACAAGTCAGCGAGGACTCAGGAAGACTCTTTAAA
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CGCAGCTCAACTGTGAGGAAACAGGACTCCAGCCAGGCAATTCCTCTGGTGGTGGAAAGCTGTATCCGGT
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TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224139 representing NM_015326

Red=Cloning site Green=Tags(s)

MTSPAKFKKDKKEIIAEYDTQVKEIRAQLTEQMKCLDQQCELRVQLQLDLQDFFRKKAIEIMDYSRNLEKL
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KSKEVGQQLQDDLMKVLNELYSVMKTYHMYNADSIASQSKLKEAEKQEEKQIGSVKQEDRQTPRSPDST
ANVRIEEKHVRSSVKKIEKMKEKRQAKYTENKLKAIKARNEYLLALEATNASVFKYYIHDLSDLIDQCC
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RSSTVRKQDSSQAIPLVVEISCIRFISRHGLQHEGIFRVSGSQVEVNDIKNAFERGEDPLAGDQNDHMDMS
IAGVLKLYFRGLEHPLFPKIDIFHDLMACVTMDNLQERALHIRKVLLVLPKTTLIIMRYLFAFLNHLSSQS
EENMMDPYNLAICFGPSLMSVPEGHQVSCQAHVNELIKTIIQHENIFPSPRELEGPVYSRGGSMEDYC
DSPHGETTSVEDSTQDVTAEHHTSDDECEPIEIAIKFDYVGRtarelsfkkgaslllyqrasddwwegrh
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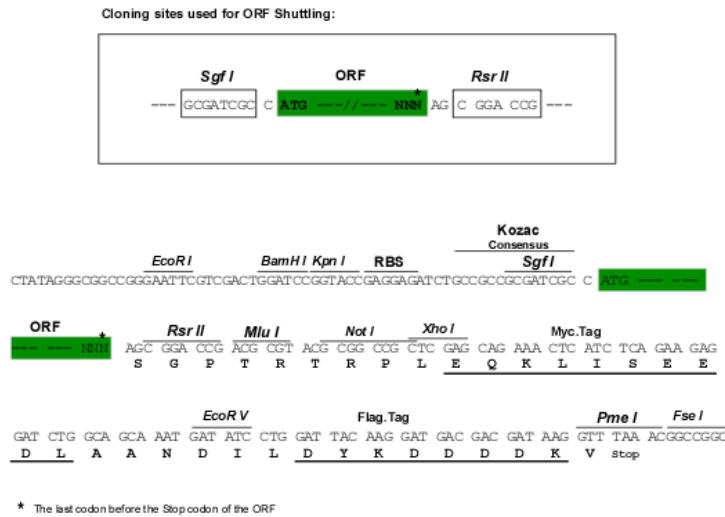
SGPTRRRLQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8044_c05.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_015326

ORF Size: 3213 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015326.2](#)

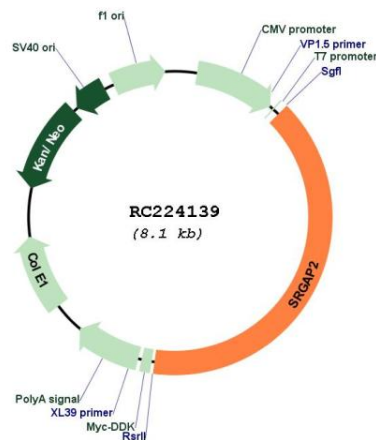
RefSeq Size: 6305 bp

RefSeq ORF: 3216 bp

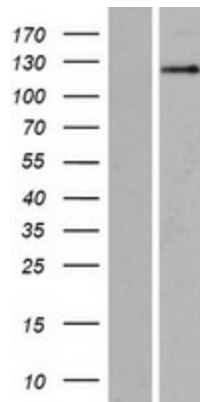
Locus ID: 23380
UniProt ID: [O75044](#)
Cytogenetics: 1q32.1
Protein Pathways: Axon guidance
MW: 120.7 kDa

Gene Summary: This locus encodes a member of the SLIT-ROBO Rho GTPase activating protein family. The encoded protein stimulates GTPase activity of Rac1, and plays a role in cortical neuron development. This locus has several paralogs on human chromosome 1 resulting from segmental duplication. While this locus itself is conserved among various species, the paralogs are found only in the genus Homo, and not in the genomes of non-human great apes. Alternatively spliced transcript variants have been described for this locus. [provided by RefSeq, Jul 2014]

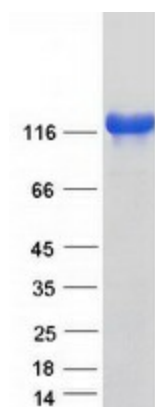
Product images:



Circular map for RC224139



Western blot validation of overexpression lysate (Cat# [LY414623]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224139 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SRGAP2 protein (Cat# [TP324139]). The protein was produced from HEK293T cells transfected with SRGAP2 cDNA clone (Cat# RC224139) using MegaTran 2.0 (Cat# [TT210002]).