

Product datasheet for RC206119

SCAP2 (SKAP2) (NM_003930) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCAP2 (SKAP2) (NM_003930) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SCAP2
Synonyms:	PRAP; RA70; SAPS; SCAP2; SKAP-HOM; SKAP55R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206119 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAACCCAGCAGCACCTCCTCTCCCTACCCCTCCCTGAGGAAATTAGGAACCTGTTGGCAGATG
TTGAAACATTTGTAGCAGATATACTGAAAGGAGAAAATTTATCCAAGAAAGCAAAGGAAAAGAGAGAATC
CCTTATTAAGAAGATAAAAGATGAAAGTCTATCTATCTTCAGGAATTTCAAGACAAAGGTGATGCAGAA
GATGGGAAGAATATGATGACCCTTTTGTGGCCTCCAGACACTATTTTCATTAGCCTCAGAACGATATG
ATAAAGACGATGAAGCCCTCTGATGGAGCCAGTTTCTCCAATTGCAGCACAAAGACCTTCCTTTTGT
TCTAAAGGCTGGCTACCTTGAAAAACGCAGAAAAGATCACAGCTTCTGGGATTTGAATGGCAGAAACGG
TGGTGTGCTCTCAGTAAAACGGTATTCTATTATTATGGAAGTGATAAAGACAAACACAGAAAGGTGAAT
TTGCAATAGATGGCTACAGTGTGAGAATGAATAACACTCTAAGAAAGGATGGAAAGAAAGATTGCTGTTT
TGAAATCTCTGCTCCTGATAAACGTATATATCAGTTTACAGCAGCTTCTCCCAAAGATGCTGAAGAATGG
GTACAGCAGCTGAAATTTGATTGCAAGATATGGAATCTGATATTATTCTGAGGATTATGATGAGAGAG
GAGAATTATATGATGATGTTGATCATCCTCTACCAATAAGCAATCCACTAACAAGCAGTCAACCAATAGA
TGATGAAATTTATGAAGAACTCCAGAAGAAGAAGAGGACAGTGTCCAGTGAAGTGAAGAACAAGG
AAGATGAGTCAGGATAGTGTCCATCACCTCAGGGGATAAGAGCACTGATTATGCTAATTTTTACCAGG
GATTGTGGGATTGACTGGAGCTTTTTCTGATGAGTTGTCAATTAAGCGTGGTGATGTGATTTACATTCT
TAGCAAGGAATACAATAGATATGGCTGGTGGTAGGAGAAATGAAGGGAGCCATTGGCTTGGTGCCTAAA
GCCTACATAATGGAGATGTATGATATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206119 protein sequence
Red=Cloning site Green=Tags(s)

MPNPSSTSSPYPLPEEIRNLLADVETFVADILKGENLSKKAKEKRESLIKKIKDVKSIYLQEFQDKGDAE
 DGEEYDDPFAGPPDTISLASERYDKDDEAPSDGAQFPPIAAQDLPFVLKAGYLEKRRKDHSFLGFEWQKR
 WCALSKTVFYGGSDKDKQKGEFAIDGYSVRMNNLTKRDKGKKDCCFEISAPDKRIYQFTAASPKDAEEW
 VQQLKFLVLDMESDIIPEDYDERGELYDDVDHPLPISNPLTSSQPIDDEIYEELPEEEEDSAPVKVEEQR
 KMSQDSVHHTSGDKSTDYANFYQGLWDCGAFSDEL SFKRGDVIYILSKEYNRYGWWVGMKGAI GLVVK
 AYIMEMYDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKVK

Chromatograms: https://cdn.origene.com/chromatograms/mk6139_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_003930

ORF Size: 1077 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_003930.5](#)

RefSeq Size: 3984 bp

RefSeq ORF: 1080 bp

Locus ID: 8935

UniProt ID: [O75563](#)

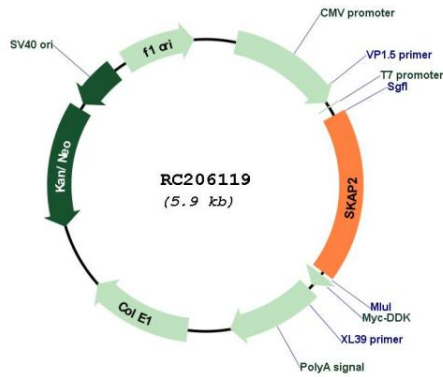
Cytogenetics: 7p15.2

Domains: SH3, PH

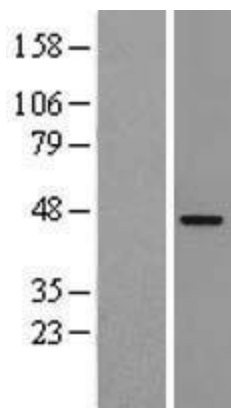
MW: 41.2 kDa

Gene Summary: The protein encoded by this gene shares homology with Src kinase-associated phosphoprotein 1, and is a substrate of Src family kinases. It is an adaptor protein that is thought to play an essential role in the Src signaling pathway, and in regulating proper activation of the immune system. This protein contains an amino terminal coiled-coil domain for self-dimerization, a pleckstrin homology (PH) domain required for interactions with lipids at the membrane, and a Src homology (SH3) domain at the carboxy terminus. Some reports indicate that this protein inhibits actin polymerization through interactions with actin assembly factors, and might negatively regulate the invasiveness of tumors by modulating actin assembly. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2015]

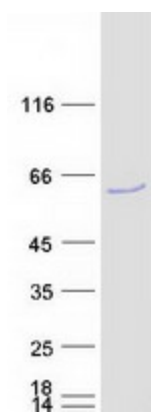
Product images:



Circular map for RC206119



Western blot validation of overexpression lysate (Cat# [LY401289]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206119 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SKAP2 protein (Cat# [TP306119]). The protein was produced from HEK293T cells transfected with SKAP2 cDNA clone (Cat# RC206119) using MegaTran 2.0 (Cat# [TT210002]).