

Product datasheet for **RC209089**

SCAMP4 (NM_079834) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCAMP4 (NM_079834) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SCAMP4
Synonyms:	SCAMP-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209089 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGAAAAGGAGAACAACCTCCCGCCACTGCCAAGTTCATCCCTGTGAAGCCCTGCTTCTACCAGA
ACTTCTCCGACGAGATCCCAGTGGAGCACCAGGTCCTGGTGAAGAGGATCTACCGCTGTGGATGTTTTA
CTGCGCCACCCTCGGCGTCAACCTCATTGCCTGCCTGGCCTGGTGGATCGGCGGAGGCTCGGGACCAAC
TTCGGCCTGGCCTTCGTGTGGCTGCTCCTGTTACGCCTTGC GGCTACGTGTGCTGGTTCGGCCTGTCT
ACAAGGCCTTCGAGCCGACAGCTCCTTAATTTTCATGGCGTTTTTCTTCATCTTCGGAGCCAGTTTGT
CCTGACCGTCATCCAGGCGATTGGCTTCTCCGGCTGGGGCGCGTGGGCTGGCTGTCCGCAATTGGATT
TTCCAGTACAGCCCGGGCGCTGCCGTGGTCATGCTGCTTCCAGCCATCATGTTCTCCGTGTCCGGTGCCA
TGATGGCCATCGCGATCATGAAGGTGCACAGGATCTACCGAGGGGCTGGCGGAAGCTTCCAGAAGGCACA
GACGGAGTGGAACACGGGCACTTGGCGGAACCCACCGTCGAGGGAGGCCAGTACAACAACCTTCTCAGGC
AACAGCCTGCCCGAGTACCCCACTGTGCCAGCTACCCGGGCAAGTGGCCAGTGGCCT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209089 protein sequence
 Red=Cloning site Green=Tags(s)

MSEKENNFPLPKFIPVKPCFYQNFSDVIPVEHQVLVKRIYRLWMFYCATLGVNLIACLAWWIGGGSGTN
 FGLAFVLLLLFTPCGYVCWFRPVYKAFRADSSFNMAFFIFGAQFVLTVIQAIGFSGWGACGWL SAIGF
 FOYSPGAAVVMLLP AIMF SVSAAMMAIAIMKVHRIYRGAGGSFQKAQTEWNTGTWRNPPSREAQYNNFSG
 NSLPEYPTVPSYPGSGQWP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6355_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_079834

ORF Size: 687 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_079834.4](#)

RefSeq Size: 2548 bp

RefSeq ORF: 690 bp

Locus ID: 113178

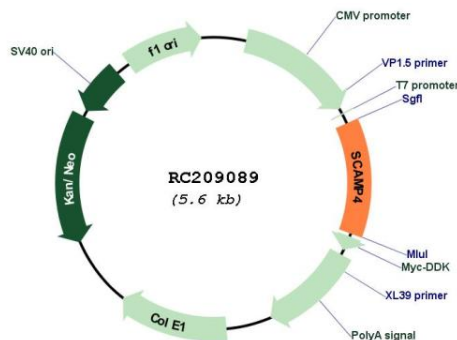
UniProt ID: [Q969E2](#)

Cytogenetics: 19p13.3

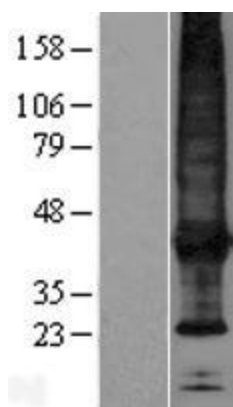
MW: 25.7 kDa

Gene Summary: Secretory carrier membrane proteins (SCAMPs) are widely distributed integral membrane proteins implicated in membrane trafficking. Most SCAMPs (e.g., SCAMP1; MIM 606911) have N-terminal cytoplasmic NPF (arg-pro-phe) repeats, 4 central transmembrane regions, and a short C-terminal cytoplasmic tail. These SCAMPs likely have a role in endocytosis that is mediated by their NPF repeats. Other SCAMPs, such as SCAMP4, lack the NPF repeats and are therefore unlikely to function in endocytosis (summary by Fernandez-Chacon and Sudhof, 2000 [PubMed 11050114]).[supplied by OMIM, Feb 2011]

Product images:



Circular map for RC209089



Western blot validation of overexpression lysate (Cat# [LY409204]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209089 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).