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Product datasheet for RG200262

SCAMP2 (NM_005697) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCAMP2 (NM_005697) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SCAMP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG200262 representing NM_005697
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGCTTTCGACACCAACCCCTTCGCGGACCCAGTGGATGTAAACCCCTTCCAGGATCCCTCTGTGA
CCCAGCTGACCAACGCCCCGCAGGGCGGCCTGGCGGAATTCAACCCCTTCTCAGAGACAAATGCAGCGAC
AACAGTTCCTGTCACCCAACTCCCTGGGTCCTCACAGCCAGCGGTTCTCCAGCCATCAGTGGAACCAACC
CAGCCGACCCCCCAGGCCGTGGTGTCTGCAGCCCAGGCAGGCCTGCTCCGGCAGCAGGAAGAACTGGACA
GGAAAGCTGCCGAGCTGGAACGCAAGGAGCGGGAGCTGCAGAACACTGTAGCCAACTTGCATGTGAGACA
GAACAACTGGCCCCCTCTGCCCTCGTGGTGCCCTGTGAAGCCCTGCTTCTATCAGGATTTCTCCACAGAG
ATCCCTGCCGACTACCAGCGGATATGCAAGATGCTCTACTATCTGTGGATGTTGCATTCAGTGACTCTGT
TTCTGAACCTGCTTGCCTGCCTGGCCTGGTTCTCGGGCAACAGCTCCAAGGGAGTGGACTTTGGCCTCTC
CATCCTGTGGTTTCTGATCTTCACTCCCTGTGCCTTCCTTTGTTGGTACCGACCCATCTATAAGGCCTTT
AGGTCCGACAACTCTTTCAGCTTCTTTGTGTTCTTCTTTGTATTTTTTTGTCAAATAGGGATCTACATCA
TCCAGTTGGTTGGCATCCCTGGCCTGGGGGACAGCGGTTGGATTGCAGCCCTGTCTACACTGGATAATCA
TTCCCTGGCCATATCAGTCATCATGATGGTGGTGGCTGGCTTCTTCACCCTCTGTGCCGTGCTCTCAGTC
TTCCTCCTGCAGCGGGTGCACTCCCTCTACCGACGGACAGGGGCCAGCTTCCAGCAGGCCCAGGAGGAGT
TTTCCCAGGGCATCTTCAGCAGCAGAACCTTCCACAGAGCTGCTTCATCTGCTGCCCAAGGAGCCTTCCA
GGGGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

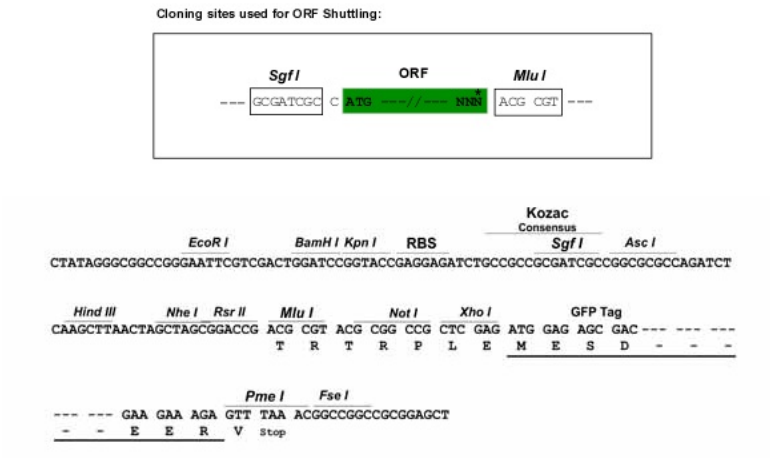
>RG200262 representing NM_005697
Red=Cloning site Green=Tags(s)

MSAFDTNPFADPVDVNPFQDPSVTQLTNAPQGGLAEFNPFSETNAATTVPVTQLPGSSQPAVLQPSVEPT
QPTPQAVVSAAQAGLLRQQEELDRKAAELERKERELQNTVANLHVRQNNWPPLPSWCPVKPCFYQDFSTE
IPADYQRICKMLYYLWMLHSVTLFLNLLACLAWFSGNSSKGVDFGLSILWFLIFTPCAFLCWYRPIYKAF
RSDNSFSFFVFFFVFFCQIGIYIIQLVGIPGLGDSGWIAALSTLDNHSLAISVIMMVVAGFFTLCAVLSV
FLLQRVHSLYRRTGASFQQAQEEFSQGIFSSRTFHRAASSAAQGAFQGN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005697

ORF Size: 987 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_005697.5

RefSeq Size: 1313 bp

RefSeq ORF: 990 bp

Locus ID: 10066

UniProt ID: O15127

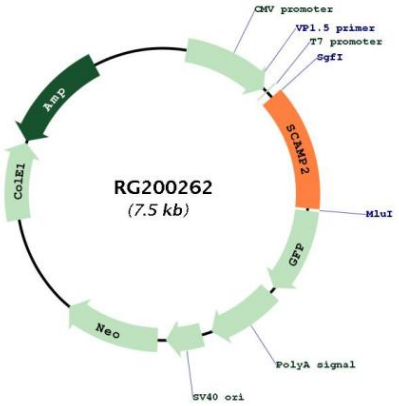
Cytogenetics: 15q24.1

Domains: SCAMP

Protein Families: Transmembrane

Gene Summary: This gene product belongs to the SCAMP family of proteins which are secretory carrier membrane proteins. They function as carriers to the cell surface in post-golgi recycling pathways. Different family members are highly related products of distinct genes, and are usually expressed together. These findings suggest that the SCAMPs may function at the same site during vesicular transport rather than in separate pathways. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG200262