OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC206543

STOML1 (NM_004809) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STOML1 (NM_004809) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STOML1
Synonyms:	hUNC-24; SLP-1; STORP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206543 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCGGCAGGTCTGGGTACCGGGCGCTGCCCCTGGGTGATTTTGACCGCTTCCAGCAGTCGAGCTTCG
GCTTTCTGGGCTCGCAGAAGGGCTGCTTGTCCCCGGAGCGGGGCGGCGTGGGGACAGGGGCCGATGTACC
CCAGAGCTGGCCCTCCTGCCTCTGTCATGGCCTCATCAGTTTCCTGGGGTTCTTGCTGCTGTTGGTCACC
TTCCCCATTTCTGGCTGGTTTGCCCTGAAGATTGTGCCCACCTACGAGCGGATGATTGTGTTCCGCCTGG
GCCGGATCCGCACCCCCCAGGGACCTGGCATGGTTCTGCTCTTGCCCTTCATTGACTCCTTTCAGAGGGT
GGATCTGAGGACACGAGCCTTCAACGTCCCTCCCTGCAAGCTGGCCTCTAAGGACGGGGCTGTGCTGTCC
GTGGGAGCCGATGTCCAGTTTCGCATCTGGGACCCGGTGCTGTCGGTGATGACTGTGAAAGACCTGAACA
CAGCCACACGCATGACAGCCCAGAACGCCATGACCAAGGCCCTGCTCAAGAGGCCGCTGCGGGAGATCCA
GATGGAGAAGCTCAAGATCAGCGACCAGCTTCTGCTGGAGATCAACGATGTGACCAGGGCCTGGGGGCTG
GAGGTAGACCGCGTGGAGCTGGCGGTGGAGGCCGTGCTCCAGCCGCCCCAGGACAGCCCAGCTGGGCCCA
ACCTGGACAGCACCCTCCAGCAGCTGGCCCTGCACTTCCTGGGAGGAAGCATGAACTCAATGGCAGGAGG
TGCCCCGTCCCCGGGGCCAGCAGACACCGTGGAGATGGTGAGTGAAGTTGAGCCACCTGCCCCTCAAGTT
GGTGCCAGGTCCAGTCCGAAGCAGCCTCTGGCGGAGGGGCTACTGACTGCTCTACAGCCCTTCCTGTCTG
AGGCCCTGGTCAGCCAAGTCGGGGCCTGCTACCAGTTCAATGTCGTCCTGCCCAGCGGCACCCAAAGCGC
CTACTTCCTGGACCTCACTACAGGACGAGGAAGAGTGGGACACGGGGTGCCTGATGGCATCCCTGATGTG
GTGGTGGAGATGGCCGAGGCAGACCTGCGGGCCCTGCTATGCAGAGAGCTGCGGCCCCTGGGGGCCTACA
TGAGTGGACGGCTGAAGGTGAAGGGCGACCTGGCTATGGCCATGAAGCTGGAGGCTGTCCTCAGGGCCTT
GAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC206543 protein sequence
Red=Cloning site Green=Tags(s)

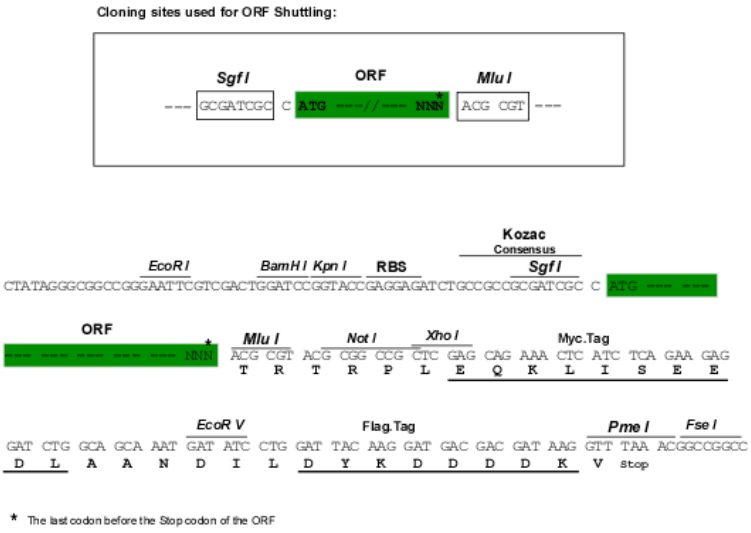
MLGRSGYRALPLGDFDRFQQSSFGFLGSQKGCLSPERGGVGTGADVPQSWPSCLCHGLISFLGFLLLLVT
FPISGWFALKIVPTYERMIVFRLGRIRTPQGPGMVLLLPFIDSFQRVDLRTRAFNVPPCKLASKDGAVLS
VGADVQFRIWDPVLSVMTVKDLNTATRMTAQNAMTKALLKRPLREIQMEKLKISDQLLLEINDVTRAWGL
EVDRVELAVEAVLQPPQDSPAGPNLDSTLQQLALHFLGGSMNSMAGGAPSPGPADTVEMVSEVEPPAPQV
GARSSPKQPLAEGLLTALQPFLSEALVSQVGACYQFNVVLPSGTQSAYFLDLTTGRGRVGHGVPDGIPDV
VVEMAEADLRALLCRELRPLGAYMSGRLKVKGDLAMAMKLEAVLRALK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6520_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004809

ORF Size: 1194 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_004809.3, NP_004800.2

RefSeq Size: 2041 bp

RefSeq ORF: 1197 bp

Locus ID: 9399

UniProt ID: Q9UBI4

Cytogenetics: 15q24.1

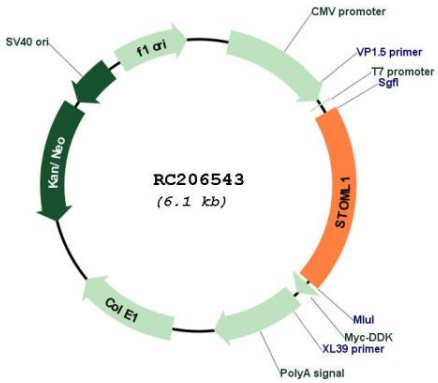
Domains: Band_7, SCP2

Protein Families: Transmembrane

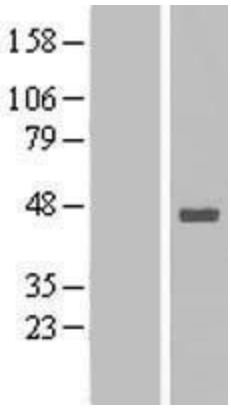
MW: 43 kDa

Gene Summary: May play a role in cholesterol transfer to late endosomes (PubMed:19696025). May play a role in modulating membrane acid-sensing ion channels. Can specifically inhibit proton-gated current of ASIC1 isoform 1. Can increase inactivation speed of ASIC3. May be involved in regulation of proton sensing in dorsal root ganglions (By similarity). May play a role in protecting FBXW7 isoform 3 from degradation (PubMed:23082202).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206543



Western blot validation of overexpression lysate (Cat# [LY417743]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206543 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).