

## Product datasheet for **RG206543**

### STOML1 (NM\_004809) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STOML1 (NM_004809) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STOML1
Synonyms:	hUNC-24; SLP-1; STORP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206543 representing NM_004809 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCGGCAGGTCTGGGTACCGGGCGCTGCCCTGGGTGATTTTGACCGCTTCCAGCAGTCGAGCTTCG  
GCTTTCTGGGCTCGCAGAAGGGCTGCTTGTCCCGGAGCGGGCGGGCTGGGGACAGGGGCCGATGTACC  
CCAGAGCTGGCCCTCCTGCCTCTGTCATGGCCTCATCAGTTTCTGGGGTCTTGCTGCTGTTGGTCACC  
TTCCCCATTTCTGGCTGGTTTGGCCTGAAGATTGTGCCACCTACGAGCGGATGATTGTGTTCCGCCTGG  
GCCGGATCCGCACCCCCAGGGACCTGGCATGGTTCTGCTCTTGCCTTCATTGACTCCTTTCAGAGGGT  
GGATCTGAGGACACGAGCCTTCAACGTCCCTCCCTGCAAGCTGGCCTCTAAGGACGGGGCTGTGCTGTC  
GTGGGAGCCGATGTCCAGTTTCGCATCTGGGACCCGGTGTGTCGGTGATGACTGTGAAAGACCTGAACA  
CAGCCACACGCATGACAGCCCAGAACGCCATGACCAAGGCCCTGCTCAAGAGGCCGCTGCGGGAGATCCA  
GATGGAGAAGCTCAAGATCAGCGACCAGCTTCTGCTGGAGATCAACGATGTGACCAGGGCCTGGGGGCTG  
GAGGTAGACCCGCTGGAGCTGGCGGTGGAGGCCGTGCTCCAGCCGCCAGGACAGCCAGCTGGGCCCA  
ACCTGGACAGCACCTCCAGCAGCTGGCCCTGCACTTCTGGGAGGAAGCATGAAGTCAATGGCAGGAGG  
TGCCCCGTCCCCGGGGCCAGCAGACCCGTGGAGATGGTGAAGTTGAGCCACCTGCCCTCAAGTT  
GGTGCCAGGTCCAGTCCGAAGCAGCCTCTGGCGGAGGGGCTACTGACTGCTCTACAGCCCTTCTGTCTG  
AGGCCCTGGTCAGCCAAGTCGGGGCCTGCTACCAAGTTCAATGTCGTCTGCCAGCGGCACCCAAAGCGC  
CTACTTCTGGACCTCACTACAGGACGAGGAAGAGTGGGACACGGGGTGCCTGATGGCATCCCTGATGTG  
GTGGTGGAGATGGCCGAGGCAGACCTGCGGGCCCTGCTATGCAGAGAGCTGCGGCCCTGGGGCCCTACA  
TGAGTGGACGGCTGAAGGTGAAGGGCGACCTGGCTATGGCCATGAAGCTGGAGGCTGTCCTCAGGCCTT  
GAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206543 representing NM\_004809  
 Red=Cloning site Green=Tags(s)

MLGRSGYRALPLGDFDRFQQSSFGFLGSQKGCCLSPERGGVGTGADVPQSWPSCCLCHGLISFLGFLLLLVT  
 FPISGWFALKIVPTYERMIVFRLGRIRTPQGPMLVLLPFIDSFQRVDLRTAFNVPPCKLASKDGAVLS  
 VGADVQFRIWDPVLSVMTVKDLNTATRMTAQNAMTKALLKRPLREIQMEKLI SDQLLEINDVTRAWGL  
 EVDRVELAVEAVLQPPQDSPAGPNLDSTLQQLALHFLGGSMNSMAGGAPSPGPADTVEMVSEVEPPAPQV  
 GARSSPKQPLAEGLLTALQPFLSEALVSQVGACYQFNVLPSGTQSAYFLDLTTGRGRVGHGVDPDGIPDV  
 VVEMAEADLRALLCRELRPLGAYMSGRLLKVKGDLAMAMKLEAVLRALK

TRTRPLE - GFP Tag - V

**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.

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

**RefSeq:** [NM\\_004809.3](#), [NP\\_004800.2](#)

**RefSeq Size:** 2116 bp

**RefSeq ORF:** 1197 bp

**Locus ID:** 9399

**UniProt ID:** [Q9UBI4](#)

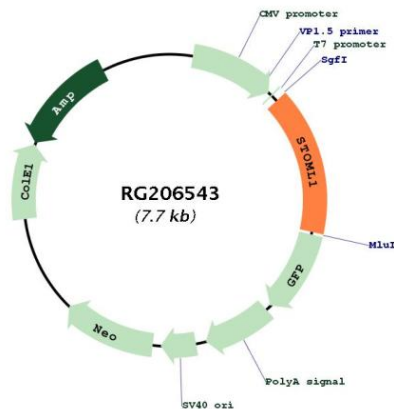
**Cytogenetics:** 15q24.1

**Domains:** Band\_7, SCP2

**Protein Families:** Transmembrane

**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 RG206543