

Product datasheet for **RG232546**

STOML1 (NM_001256673) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STOML1 (NM_001256673) 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:	>RG232546 representing NM_001256673 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCGGCAGGTCTGGGTACCGGGCGCTGCCCTGGGTGATTTTGACCGCTTCCAGCAGTCGAGCTTCG
GCTTTCTGGGCTCGCAGAAGGGCTGCTTGTCCCGGAGCGGGCGGGTGGGGACAGGGCCGATGTACC
CCAGAGCTGGCCCTCCTGCCTCTGTCATGGCCTCATCAGTTTCTGGGGTCTTGTCTGTTGGTCACC
TTCCCATTTCTGGCTGGTTTCCCTGAAGCTGGCCTTAAGGACGGGGCTGTGCTGTCCGTGGGAGCCG
ATGTCCAGTTTTCGCATCTGGGACCCGGTGTGTCGGTGATGACTGTGAAAGACCTGAACACAGCCACACG
CATGACAGCCCAGAACGCCATGACCAAGGCCCTGCTCAAGAGGCCGCTGCGGGAGATCCAGATGGAGAAG
CTCAAGATCAGCGACCAGCTTCTGCTGGAGATCAACGATGTGACCAGGGCCTGGGGGCTGGAGGTAGACC
GCGTGGAGCTGGCAGTGGAGGCCGTGCTCCAGCCGCCCCAGGACAGCCAGCTGGGCCAACCTGGACAG
CACCTCCAGCAGCTGGCCCTGCACTTCTGGGAGGAAGCATGAACTCAATGGCAGGAGGTGCCCGTCC
CCGGGGCCAGCAGACACCGTGGAGATGGTGAGTGAAGTTGAGCCACCTGCCCTCAAGTTGGTGCCAGGT
CCAGTCCGAAGCAGCCTCTGGCGGAGGGGCTACTGACTGCTCTACAGCCCTTCTGTCTGAGGCCCTGGT
CAGCCAAGTCGGGGCCTGCTACCACTCAATGTCTGCTGCCAGCGGCCACCAAAGCGCCTACTTCCTG
GACCTACTACAGGACGAGGAAGAGTGGGACACGGGGTGCCTGATGGCATCCCTGATGTGGTGGGAGA
TGGCCGAGGCAGACCTGCGGGCCCTGCTATGCAGAGAGCTGCGGCCCTGGGGCCCTACATGAGTGGACG
GCTGAAGGTGAAGGGCGACCTGGCTATGGCCATGAAGCTGGAGGCTGTCTCAGGGCCTGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232546 representing NM_001256673
 Red=Cloning site Green=Tags(s)

MLGRSGYRALPLGDFDRFQQSSFGLGSQKGC LSPERGGVGTGADVPQSWP SCLCHGLISFLGFLLLLVT
 FPI SGWFALKLASKDGAVL SVGADVQFRIWDPVLSVMTVKDLNTATRM TAQNAMTKALLKRPLREIQMEK
 LKISDQLLLEINDVTRAWGLEVDRVELAVEAVLQPPQDSPAGPNLDSTLQQLALHFLGGSMNSMAGGAPS
 PGPADTVEMVSEVEPPAPQV GARSSPKQPLAEGLLTALQPFLSEALVSQVGACYQFNVVLP SGTQSA YFL
 DLTTRGRVGHGVPDGI PDVVVEMAEADLRALLCRELRPLGAYMSGRLKVKGDLAMAMKLEAVLRALK

TRTRPLE - GFP Tag - V

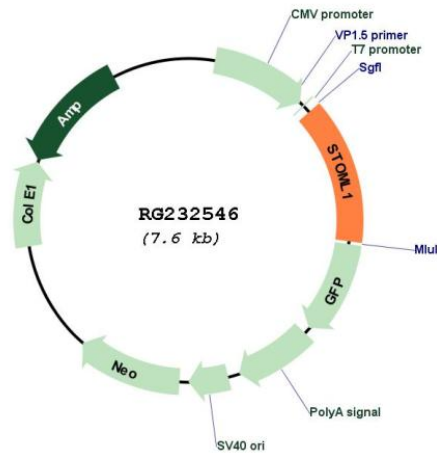
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001256673

ORF Size: 1044 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:	<ol style="list-style-type: none">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_001256673.1 , NP_001243602.1
RefSeq Size:	1891 bp
RefSeq ORF:	1047 bp
Locus ID:	9399
UniProt ID:	Q9UBI4
Cytogenetics:	15q24.1
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]