

Product datasheet for **RG226823**

STOML3 (NM_001144033) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STOML3 (NM_001144033) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STOML3
Synonyms:	Epb7.2l; SRO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226823 representing NM_001144033 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAACCTCAGAGGGCAGCTTGTAGGTGTCAACAATAAACGGCTTGGTGTATGTGGCTGGATCCTGTTTT
CCCTCTCTTTCTGTTGGTGATCATTACCTTCCCATCTCCATATGGATGTGCTTGAAGATCATTAAAGGA
GTATGAACGTGCTGTTGTATTCCGTCTGGGACGCATCCAAGCTGACAAAGCCAAGGGCCAGGTTTGATC
CTGGTCCTGCCATGCATAGATGTGTTTGTCAAAGTTGACCTCCGAACAGTTACTTGCAACATTCTCCAC
AAGAGATCCTCACCAGAGACTCCGTAACTACTCAGGTAGATGGAGTTGTCTATTACAGAATCTATAGTGC
TGTCTCAGCAGTGCTAATGTCAACGATGTCCATCAAGCAACATTTCTGCTGGCTCAAACCACTCTGAGA
AATGTCTTAGGGACACAGACCTTGTCCCAGATCTTAGCTGGACGAGAAGAGATCGCCCATAGCATCCAGA
CTTTACTTGATGATGCCACCGAACTGTGGGGGATCCGGGTGGCCCGAGTGGAATCAAAGATGTTCCGGAT
TCCCGTGCAGTTGCAGAGATCCATGGCAGCCGAGGCTGAGGCCACCCGGGAAGCGAGAGCCAAGGTCCTT
GCAGCTGAAGGAGAAATGAATGCTTCCAATCCCTGAAGTCAGCTCCATGGTGTGCTGAGTCTCCCA
TAGCTCTCCAGCTGCGCTACCTGCAGACCTTGAGCACGGTAGCCACCGAGAAGAATTCTACGATTGTGT
TCCTCTGCCCATGAATATACTAGAGGGCATTGGTGGCGTCAGCTATGATAACCACAAGAAGCTTCCAAT
AAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226823 representing NM_001144033
 Red=Cloning site Green=Tags(s)

MNSRGELVGVNNKRLGVCWILFSL SFLLVIIITFPISIWMLKIIKEYERAVVFR LGRIQADKAKGPGLI
 LVLPCIDVFKVDLRTVTCNIPPQEIL TRDSVTTQVDGVVYRIYSAVS AVANVNDVHQATFLLAQTTLR
 NVLGTQTL SQILAGREEIAHSIQTL LDDATELW GIRVARVEIKDVRIPVQLQRSM AAEAEATREARAKVL
 AAEGEMNASKSLKSAS MVLAESP IALQLRYLQTLSTVATEKNSTIVFPLPMNILEGIGVSYDNHKKLPN
 KA

TRTRPLE - GFP Tag - V

Restriction Sites:

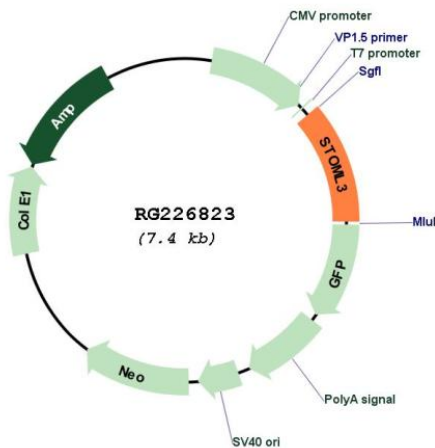
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001144033

ORF Size: 846 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_001144033.1 , NP_001137505.1
RefSeq Size:	2020 bp
RefSeq ORF:	849 bp
Locus ID:	161003
UniProt ID:	Q8TAV4
Cytogenetics:	13q13.3
Protein Families:	Transmembrane
Gene Summary:	Required for the function of many mechanoreceptors. Modulate mechanotransduction channels and acid-sensing ion channels (ASIC) proteins. Potentiates PIEZO1 and PIEZO2 function by increasing their sensitivity to mechanical stimulations.[UniProtKB/Swiss-Prot Function]