

## Product datasheet for RC236225

### STOM (NM\_001270527) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** STOM (NM\_001270527) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** STOM  
**Synonyms:** BND7; EPB7; EPB72  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC236225 representing NM\_001270527  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGAGAAGCGGCACACACGGGACTCCGAAGCCCAGCGGCTCCCCGACTCCTTCAAGGACAGCCCCA  
 GTAAGGGCCTTGGACCTTGCAGTGGATTTTGGTGGCTTCTCATTCTTATTCACCGTTATAACTTTCCC  
 AATCTCAATATGGATGTGCATAAAGATTATAAAAGAGTATGAAAGAGCCATCATCTTTAGATTGGGTCGC  
 ATTTTACAAGGAGGAGCCAAAGGACCTGGTTTGTCTTTTATTCTGCCATGCACTGACAGCTTCATCAAAG  
 TGGACATGAGAACTATTTCAATTTGATATTCCTCCTCAGGAGATCCTCACAAAGGATTCAGTGACAATTAG  
 CGTGGATGGTGTGGTCTATTACCGGTTTCAAGATGCAACCTGGCTGTGGCAAATATCACCAACGCTGAC  
 TCAGCAACCCGCTTTTGGCACAACTACTCTGAGGAATGTTCTGGGCACCAAGAATCTTCTCAGATT  
 CCTCTTTGAGACTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236225 representing NM\_001270527  
 Red=Cloning site Green=Tags(s)

MAEKRHTRDSEAQRLPDSFKDSPSKGLGPCGWILVAFSFLFTVITFPISIWMCIKIIEKEYERAIIFRLGR  
 ILQGGAKGPLFFILPCTDSFIKVD MRTISFDIPPQEILTKDSVTISVDGVVYR VQNATLAVANITNAD  
 SATRLLAQTTLRNVLTGNLSQISSRL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



Cloning Scheme:

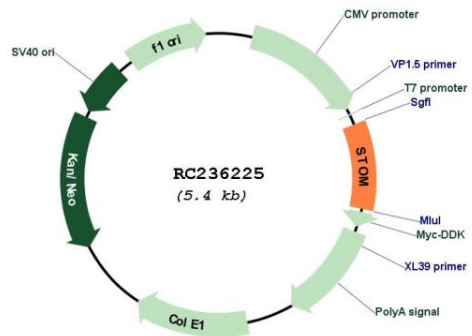


ACCN:	NM_001270527
ORF Size:	504 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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. <a href="#">More info</a>
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"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<a href="#">NM_001270527.1</a> , <a href="#">NP_001257456.1</a>
RefSeq Size:	1257 bp
RefSeq ORF:	507 bp
Locus ID:	2040
Cytogenetics:	9q33.2
Protein Families:	Transmembrane

**MW:** 19.1 kDa

**Gene Summary:** This gene encodes a member of a highly conserved family of integral membrane proteins. The encoded protein localizes to the cell membrane of red blood cells and other cell types, where it may regulate ion channels and transporters. Loss of localization of the encoded protein is associated with hereditary stomatocytosis, a form of hemolytic anemia. There is a pseudogene for this gene on chromosome 6. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]

**Product images:**



Circular map for RC236225