

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
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236225 representing NM_001270527
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGAGAAGCGGCACACACGGGACTCCGAAGCCCAGCGGCTCCCGACTCCTTCAAGGACAGCCCCA
 GTAAGGGCCTTGGACCTTGGGATGGATTTTGGTGGCGTTCTCATTCTTATTCACCGTTATAACTTTCCC
 AATCTCAATATGGATGTGCATAAAGATTATAAAGAGATGAAAGAGCCATCATCTTTAGATTGGGTCGC
 ATTTTACAAGGAGGCCAAAGGACCTGGTTTGTTTTTTATTCTGCCATGCACTGACAGCTTCATCAAAG
 TGGACATGAGAACTATTTTCAATTTGATATTCCTCCTCAGGAGATCCTCACAAAGGATTCAGTGACAATTAG
 CGTGGATGGTGTGGTCTATTACCGCTTCAAGATGCAACCCTGGCTGTGGCAAATATACCAACCGTGAC
 TCAGCAACCCGTCTTTTGGCACAACTACTCTGAGGAATGTTCTGGGCACCAAGAATCTTCTCAGATTT
 CCTCTTTGAGACTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236225 representing NM_001270527
 Red=Cloning site Green=Tags(s)

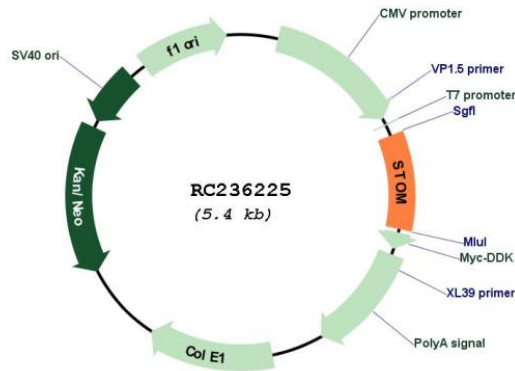
MAEKRHTRDSEAQRLPDSFKDSPSKLGPWCWILVAFSFLFTVITFPISIWMCIKIKEYERAIIFRLGR
 ILQGGAKGPGLLFFILPCTDSFIKVD MRTISFDIPPQEILTKDSVTISVDGVVYRVRVQ NATLAVANITNAD
 SATRLLAQTTLRNVLGTKNLSQISSRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


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. [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:	<u>NM_001270527.1</u> , <u>NP_001257456.1</u>
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]