

## Product datasheet for **RG202060**

### STOM (NM\_004099) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STOM (NM_004099) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STOM
Synonyms:	BND7; EPB7; EPB72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202060 representing NM_004099 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGCCGAGAAGCGGCACACACGGGACTCCGAAGCCAGCGGCTCCCCGACTCCTTCAAGGACAGCCCCA  
GTAAGGGCCTTGGACCTTGGGATGGATTTTGGTGGCCTTCTCATTCTTATTCACCGTTATAACTTTCCC  
AATCTCAATATGGATGTGCATAAAGATTATAAAAGAGTATGAAAGAGCCATCATCTTTAGATTGGGTCGC  
ATTTTACAAGGAGGAGCCAAAGGACCTGGTTTGTTTTTTATTCTGCCATGCACTGACAGCTTCATCAAAG  
TGGACATGAGAAGTATTTCAATTTGATATTCCTCCTCAGGAGATCCTCACAAAGGATTCAGTGACAATTAG  
CGTGGATGGTGTGGTCTATTACCGGTTAGAATGCAACCTGGCTGTGGCAAATATCACCAACGCTGAC  
TCAGCAACCCGCTTTTTGGCACAACACTCTGAGGAATGTTCTGGGCACCAAGAATCTTTCTCAGATCC  
TCTCTGACAGAGAAGAAATTGCACACAACATGCAGTCTACTCTGGATGATGCCACTGATGCCTGGGGAAT  
AAAGGTGGAGCGTGTGGAATTAAGGATGTGAACTACCTGTGCAGCTCCAGAGAGCTATGGCTGCAGAA  
GCAGAAGCGTCCCAGGAGCCCGCAGGTTATTGCAGCCGAAGGAGAAATGAATGCATCCAGGGCTC  
TGAAAGAAGCCTCCATGGTCATCACTGAATATCCTGCAGCCCTCAGCTCCGATACCTGCAGACTGAC  
CACCATTGCTGCTGAGAAAACTCAACAATTGTCTTCCCTCTGCCATAGATATGCTGCAAGGAATCATA  
GGGGCAAAACACAGCCATCTAGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202060 representing NM\_004099  
 Red=Cloning site Green=Tags(s)

MAEKRHTRDSEAQRLPDSFKDSPSKGLGPCGWILVAFSFLFTVITFPISIWMCIKIKEYERAIIFRLGR  
 ILQGGAKGPLFFILPCTDSFIKVMRTISFDIPPQEILTKDSVTISVDGVVYRQVQNLAVANITNAD  
 SATRLLAQTTLRNVLGTKNLSQILSDREEIAHNMQSTLDDATDAWGIKVERVEIKDVKLPVQLQRAMAAE  
 AEASREARAKVIAAEGEMNASRALKEASMVITEYPAALQLRYLQTLTTIAAEKNSTIVFPLPIDMLQGI  
 GAKHSHLG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004099

**ORF Size:** 864 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.

**RefSeq:** [NM\\_004099.2](#)

**RefSeq Size:** 3108 bp

**RefSeq ORF:** 867 bp

**Locus ID:** 2040

**UniProt ID:** [P27105](#)

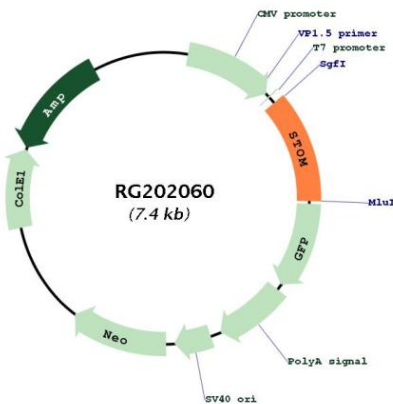
**Cytogenetics:** 9q33.2

**Domains:** Band\_7

**Protein Families:** Transmembrane

**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 RG202060