

## Product datasheet for **RG236487**

### STOM (NM\_001270526) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** STOM (NM\_001270526) 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:** >RG236487 representing NM\_001270526.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGAGAAGCGGCACACACGGGACTCCGAAGCCAGCGGCTCCCGACTCCTTCAAGGACAGCCCC
AGTAAGGGCCTTGGACCTTGGGATGGATTTTGGTGGCGTTCTCATTCTTATTACCGTTATAAATTTT
CCAATCTCAATATGGATGTGCATAAAGATTATAAAGAGTATGAAAGAGCCATCATCTTTAGATTGGGT
CGCATTTTACAAGGAGGCCAAAGGACCTGGTTTGTTTTTTATTCTGCCATGCACTGACAGCTTCATC
AAAGTGGACATGAGAATTTTCATTTGATATTCTCCTCAGGAGATCCTCACAAAGGATTCAGTGACA
ATTAGCGTGGATGGTGTGGTCTATTACCGGTTGAGAATGCAACCCTGGCTGTGGCAAATACCAAC
GCTGACTCAGCAACCCGCTTTTGGCACAACTACTCTGAGGAATGTTCTGGGCACCAAGAATCTTTCT
CAGATCCTCTGACAGAGAAGAAATTGCACACAACATGCAGTCTACTCTGGATGATGCCACTGATGCC
TGGGGAATAAAGGTGGAGCGTGTGGAAATTAAGGATAAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236487  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAEKRHTRDSEAQRLPDSFKDSPSKGLGPCGWILVAFSFLFTVITFPISIWMCIKIKEYERAIIFRLG
RILQGGAKGPGFLFFILPCTDSFIKVD MRTISF DIPPEILTKDSVTISVDGVVYRVQNLAVANITN
ADSATRLLAQTTLRNVLGTKNLSQILSDREEIAHNMQSTLDDATDAWGIVKVERVEIKDK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSPGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERY
```

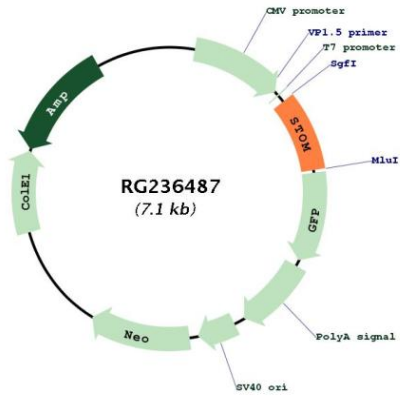
**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


- ACCN:** NM\_001270526
- ORF Size:** 591 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).
- RefSeq:** [NM\\_001270526.2](#)
- RefSeq Size:** 3107 bp
- RefSeq ORF:** 594 bp
- Locus ID:** 2040
- Cytogenetics:** 9q33.2
- Protein Families:** Transmembrane
- MW:** 22.5 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 RG236487