

Product datasheet for **RG221724**

STOM (NM_198194) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: STOM (NM_198194) 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: >RG221724 representing NM_198194
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCGAGAAGCGGCACACACGGGACTCCGAAGCCCAGCGGCTCCCGACTCCTCAAGGACAGCCCCA
GTAAGGGCCTTGGACCTTGC GGATGGATTTTGGTGGCCTTCTCATTCTTATTCACCGTTATAACTTTCCC
AATCTCAATATGGATGTGCATAAAGTTATTGCAGCCGAAGGAGAAATGAATGCATCCAGGGCTCTGAAA
GAAGCCTCCATGGTCATCACTGAATCTCCTGCAGCCCTTCAGCTCCGATACCTGCAGACACTGACCACCA
TTGCTGCTGAGAAAACTCAACAATTGTCTTCCCTCTGCCATAGATATGCTGCAAGGAATCATAGGGGC
AAAACACAGCCATCTAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221724 representing NM_198194
Red=Cloning site **Green**=Tags(s)

MAEKRHTRDSEAQRLPDSFKDPSKGLGPCGWILVAFSFLFTVITFPISIWMCIKIVIAAEGEMNASRALK
EASMVITESPAALQLRYLQTLTTIAAEKNSTIVFPLPIDMLQGIIGAKHSHLG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

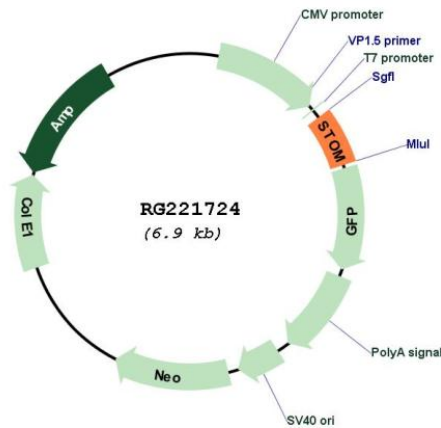


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Cloning Scheme:



Plasmid Map:



ACCN: NM_198194

ORF Size: 369 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_198194.3 |
| RefSeq Size: | 2703 bp |
| RefSeq ORF: | 372 bp |
| Locus ID: | 2040 |
| UniProt ID: | P27105 |
| Cytogenetics: | 9q33.2 |
| 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] |