

Product datasheet for **MG201949**

Stom (BC003789) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stom (BC003789) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Stom
Synonyms: Epb7.2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201949 representing BC003789
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTGACAAACGGCAGTCCAGCCATGTCCAGTCTCAGCGGATCCCTGAGTCCTTCAGAGAAAATTCCA
 AGACAGAAGCTGGGAGCTTGTGGATGGATTTTGGTGGCTGCCTCGTTCTTTTTCGTAATTATAACCTTCCC
 AATATCAATATGGATTTGCATAAAGATTGTAAGAGATGAGAGAGTCATCATCTTTAGACTGGGTCGC
 ATTTTGAAGGAGCGCCAAAGGACCAGGTTTGTTTTTATCCTGCCGTGACTGACAGCCTCATCAAGG
 TGGACATGAGGACCATCTCCTTTGACATTCCTCCGAGGAGGTCCTCACTAAGGACTCGGTGACAATCAG
 TGTGGATGGTGTGGTCTACTACCGTGTTCAGAACGAACCTGGCTGTGGCCAATATACCAATGCAGAT
 TCAGCAACCCGCTTTTTGGCACAACTACCTCAGGAATGCGCTGGGCACCAAGAACCTGTCTCAAATCC
 TCAGCACCAAAACAGAGACATGTTGGCTTGAAATAACGAGAGAATGAGATGGCTGGCTTATGCACAGTT
 CTCTTACTCTTTAAGTTTGCCTTTTTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201949 representing BC003789
 Red=Cloning site Green=Tags(s)

MSDKRQSSHVQSQRIPESFRENSKTELGACGWILVAASFFVITFPISIWICIKIVKEYERVIIIFRLGR
 ILQGGAKGPLFFILPCTDSL IKVDMRTISFDIPPQEVLTkDSVTISVDGVVYRQVQNLAVANITNAD
 SATRLLAQTTLRNALGTKNLSQILSTKTETCWL VNNERMRLAYAQFSYSLSLRLFS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

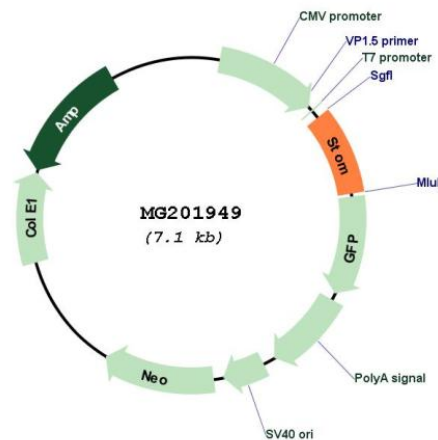


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Cloning Scheme:



Plasmid Map:



ACCN: BC003789

ORF Size: 593 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: [BC003789](#), [AAH03789](#)

RefSeq Size: 2191 bp

RefSeq ORF: 593 bp

Locus ID: 13830

Cytogenetics: 2 23.53 cM

Gene Summary: Regulates ion channel activity and transmembrane ion transport. Regulates ASIC2 and ASIC3 channel activity.[UniProtKB/Swiss-Prot Function]