

Product datasheet for MR202452

Gstm1 (NM_010358) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gstm1 (NM_010358) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gstm1
Synonyms:	Gstb-1; Gstb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202452 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTATGATACTGGGATACTGGAACGTCCGCGGACTGACACACCCGATCCGCATGCTCCTGGAATACA
CAGACTCAAGCTATGATGAGAAGAGATACACCATGGGTGACGCTCCCGACTTTGACAGAAGCCAGTGGCT
GAATGAGAAGTTCAAGCTGGGCTGGACTTTCCCAATCTGCCTACTTGTATCGATGGATCACACAAGATC
ACCCAGAGCAATGCCATCCTGCGCTACCTTGCCGAAAGCACCACCTGGATGGAGAGACAGAGGAGGAGA
GGATCCGTGCAGACATTGTGGAGAACCAGGTCATGGACACCCGCATGCAGCTCATCATGCTCTGTTACAA
CCCTGACTTTGAGAAGCAGAAGCCAGAGTTCTTGAAGACCATCCCTGAGAAAATGAAGCTCTACTCTGAG
TTCTGGGCAAGAGGCCATGGTTTGACAGGGACAAGGTCACCTATGTGGATTTCTTGCTTATGACATTC
TTGACCAAGTACCGTATGTTTGAGCCCAAGTGCCTGGACGCCTTCCCAAACCTGAGGGACTTCTGGCCCCG
CTTCGAGGGCCTCAAGAAGATCTCTGCCTACATGAAGAGTAGCCGCTACATCGCAACACCTATATTTTCA
AAGATGGCCCACTGGAGTAACAAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202452 protein sequence
 Red=Cloning site Green=Tags(s)

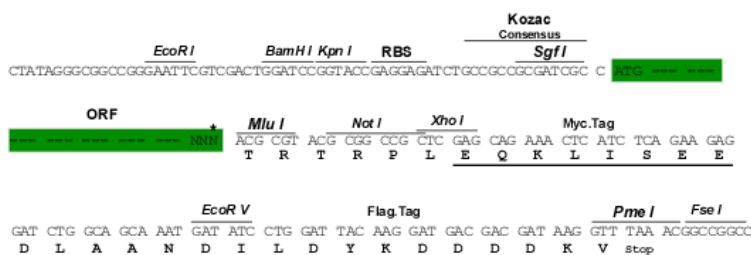
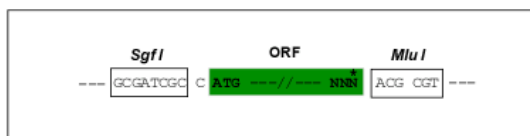
MPMILGYWNRGLTHPIRMLLEYTDSSYDEKRYTMGDAPDFDRSQWLNEFKLGLDFPNLPYLIDGSHKI
 TQSNAILRYLARKHHLDTGETEEERIRADIVENQVMDTRMQLIMLCYNPDFEKQKPEFLKTIPEKMKLYSE
 FLGKRPFAGDKVTYVDFLAYDILDQYRMFEPKCLDAFPNLRDFLARFEGLKKISAYMKSSRYIATPIFS
 KMAHWSNK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010358

ORF Size: 657 bp

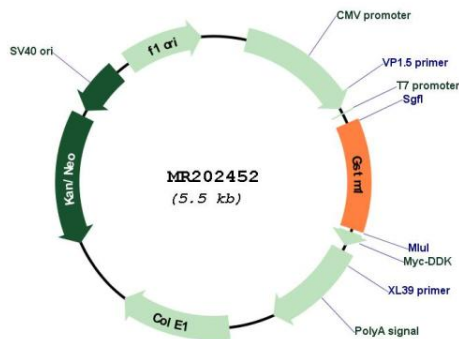
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_010358.5](#)
- RefSeq Size:** 1310 bp
- RefSeq ORF:** 657 bp
- Locus ID:** 14862
- UniProt ID:** [P10649](#)
- Cytogenetics:** 3 F2.3
- MW:** 26 kDa
- Gene Summary:** Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202452