

## Product datasheet for **MR202448**

### Gstm4 (NM\_001160411) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gstm4 (NM_001160411) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gstm4
Synonyms:	1110004G14Rik; Gstb-4; Gstb4; GSTM7-7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202448 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTATGACACTGGGTTACTGGGACATCCGTGGGCTAGCTCACGCTATTCGGCTGCTCCTAGAATACA  
CAGGCTCAAGCTATGAAGAGAAGAGATACACCATGGGAGACGCTCCTGACTATGACCGAAGCCAGTGGCT  
GAGTGAGAAGTTCAAATTGGGCTGGACTTTCCCAATTTGCCTTACTTGATTGATGGGTACACAAGATC  
ACGCAGAGCAATGCCATCCTGCGCTACATTGCCCGCAAGCACAACCTGTGTGGGAGACAGAGGAAGAGA  
AGATTCGCGTGGACATTTGGAGAACCAGGCTATGGATGTCTCCAATCAGCTGGCTCGAGTCTGTTACAG  
CCCAGACTTTGAGAACTGAAGGTGGAATACTTGAGCAGCTCCCTGGAATGGTGAAGCTTCTCACAG  
TTCTGGGCCAGCGGACATGGTTTGTGGTGAAGATTACTTTGTAGATTTCTGGCTTACGATATCC  
TGGACCTGCACCTTATATCGAACCCACGTGCCTGGACGCCTTCCCAAACCTGAAGGACTTTGTGGCCCG  
CTTTGAGGTAAGAGGATCTCTGCTTACATGAAGACCAGCCGCTTCTCCGAACACCCCTATATACA  
AAGGTGGCCACTTGGGCAATAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202448 protein sequence  
 Red=Cloning site Green=Tags(s)

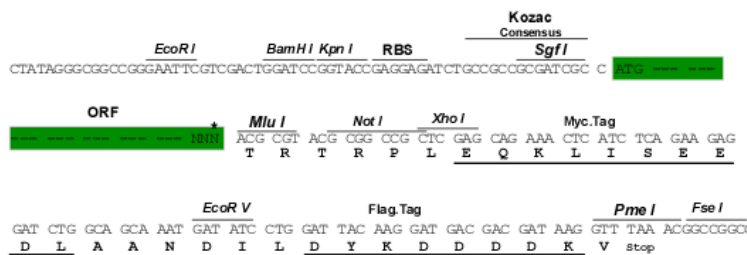
MPMTLGYWDIRGLAHAIRLLLEVTGSSYE EKRYTMGDAPDYDRSQWLSEKFKLGLDFPNLPYLIDGSHKI  
 TQSNAILRYIARKHNLCGETEEEEKIRVDILENQAMDVSNQLARVCYSPDFEKLKVEYLEQLPGMKLFSQ  
 FLGQRTWFVGEKITFVDFLAYDILDHLIFEPTCLDAFPNLKDFVARFEVLKRISAYMKTSRFLRTPLYT  
 KVATWGNK

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\_001160411

**ORF Size:** 657 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 Size:** 1479 bp

**RefSeq ORF:** 555 bp

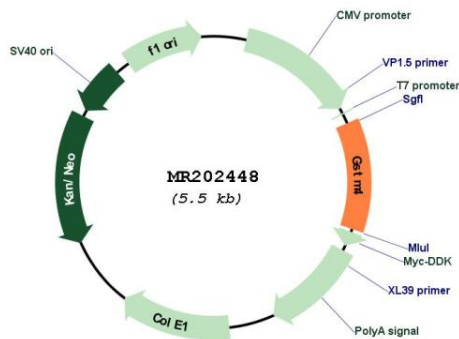
**Locus ID:** 14865

**Cytogenetics:** 3 F2.3

**MW:** 25.5 kDa

**Gene Summary:** Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Catalyzes the conjugation of leukotriene A4 with reduced glutathione (GSH) to form leukotriene C4. Can also catalyzes the transfer of a glutathionyl group from glutathione (GSH) to 13(S),14(S)-epoxy-docosaehaenoic acid to form maresin conjugate in tissue regeneration 1 (MCTR1), a bioactive lipid mediator that possess potent anti-inflammatory and proresolving actions.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202448