

## Product datasheet for **MG202448**

### **Gstm4 (NM\_026764) Mouse Tagged ORF Clone**

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Gstm4 (NM_026764) Mouse Tagged ORF Clone                                    |
| Tag:                      | TurboGFP  |
| Symbol:                   | Gstm4   |
| Synonyms:                 | 1110004G14Rik; Gstb-4; Gstb4; GSTM7-7                                       |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG202448 representing NM_026764<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTATGACACTGGGTTACTGGGACATCCGTGGGCTAGCTCACGCTATTCGGCTGCTCCTAGAATACA  
CAGGCTCAAGCTATGAAGAGAAGAGATACACCATGGGAGACGCTCCTGACTATGACCGAAGCCAGTGGCT  
GAGTGAGAAGTTCAAATGGGCCTGGACTTTCCCAATTTGCCTTACTTGATTGATGGGTCACACAAGATC  
ACGCAGAGCAATGCCATCCTGCGCTACATTGCCCGCAAGCACAACCTGTGTGGGAGACAGAGGAAGAGA  
AGATTCGCGTGGACATTTGGAGAACCAGGCTATGGATGTCTCCAATCAGCTGGCTCGAGTCTGTTACAG  
CCCAGACTTTGAGAACTGAAGGTGGAATACTTGAGCAGCTCCCTGGAATGGTGAAGCTTTCTCACAG  
TTCTGGGCCAGCGGACATGGTTTGTGGTGAAGATTACTTTGTAGATTTCTGGCTTACGATATCC  
TGGACCTGCACCTTATATCGAACCCACGTGCCTGGACGCCTTCCCAAACCTGAAGGACTTTGTGGCCCG  
CTTTGAGGTAAGAGGATCTCTGCTTACATGAAGACCAGCCGCTTCTCCGAACACCCCTATATACA  
AAGGTGGCCACTTGGGGCAATAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202448 representing NM\_026764  
 Red=Cloning site Green=Tags(s)

MPMTLGYWDIRGLAHAIRLLLEVTGSSYEEKRYTMGDAPDYDRSQWLSEKFKLGLDFPNLPYLIDGSHKI  
 TQSNAILRYIARKHNLCGETEEEEIRVDILENQAMDVSNQLARVCYSPDFEKLKVEYLEQLPGMVKLFSQ  
 FLGQRTWFVGEKITFVDFLAYDILDHLIFEPTCLDAFPNLKDFVARFEVLKRISAYMKTSRFLRTPLYT  
 KVATWGNK

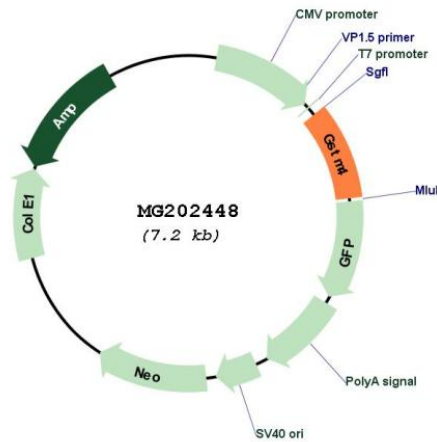
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_026764

**ORF Size:** 1681 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>            |
| <b>RefSeq:</b>                | <a href="#">NM_026764.3</a> , <a href="#">NP_081040.1</a>  |
| <b>RefSeq Size:</b>           | 1639 bp  |
| <b>RefSeq ORF:</b>            | 657 bp   |
| <b>Locus ID:</b>              | 14865  |
| <b>UniProt ID:</b>            | <a href="#">Q8R5I6</a>   |
| <b>Cytogenetics:</b>          | 3 F2.3   |
| <b>Gene Summary:</b>          | 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-docosahexaenoic 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] |