

Product datasheet for **MR213977**

Gstm4 (NM_026764) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gstm4 (NM_026764) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gstm4
Synonyms: 1110004G14Rik; Gstb-4; Gstb4; GSTM7-7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR213977 representing NM_026764
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCCTATGACACTGGGTTACTGGGACATCCGTGGGCTAGCTCACGCTATTCGGCTGCTCCTAGAATACA
CAGGCTCAAGCTATGAAGAGAAGAGATACACCATGGGAGACGCTCCTGACTATGACCGAAGCCAGTGGCT
GAGTGAGAAGTTCAAATTGGGCCTGGACTTTCCCAATTTGCCTTACTTGATTGATGGGTACACAAGATC
ACGCAGAGCAATGCCATCCTGCGCTACATTGCCCGCAAGCACAACCTGTGTGGGGAGACAGAGGAAGAGA
AGATTCGCGTGGACATTTTGGAGAACAGGCTATGGATGTCTCCAATCAGCTGGCTCGAGTCTGTTACAG
CCCAGACTTTGAGAACTGAAGGTGGAATACTTGGAGCAGCTCCCTGGAATGGTGAAGCTCTTCTCACAG
TTCCTGGGCCAGCGGACATGGTTTGTGGTGAAAAGATTACTTTGTAGATTTCTTGGCTTACGATATCC
TGGACCTGCACCTTATATTCGAACCCACGTGCCTGGACGCCTTCCCAAACCTGAAGGACTTTGTGGCCCG
CTTTGAGGTACTGAAGAGGATCTCTGCTTACATGAAGACCAGCCGCTTCTCCGAACACCCCTATATACA
AAGGTGGCCACTTGGGGCAATAAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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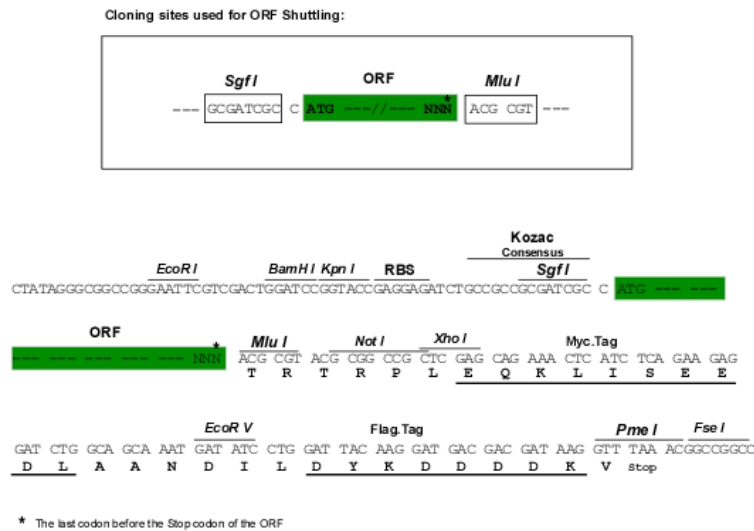
Protein Sequence: >MR213977 representing NM_026764
 Red=Cloning site Green=Tags(s)

MPMTLGWDIRGLAHAIRLLLEYTGSSYEKRYTMGDAPDYDRSQWLSEKFKLGLDFPNLPYLIDGSHKI
 TQSNAILRYIARKHNLCGETEEKIRVDILENQAMDVSNQLARVCYSPDFEKLKVEYLEQLPGMVKLFSQ
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 KVATWGNK

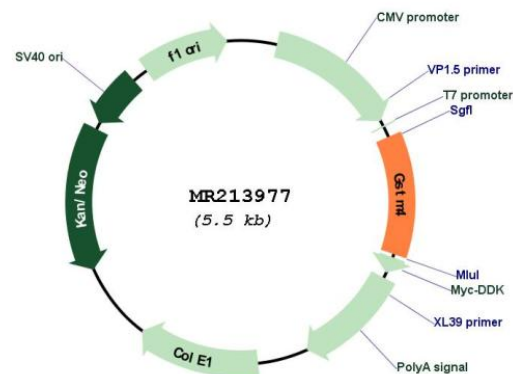
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026764

ORF Size: 654 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_026764.3 , NP_081040.1
RefSeq Size:	1684 bp
RefSeq ORF:	657 bp
Locus ID:	14865
UniProt ID:	Q8R5I6
Cytogenetics:	3 F2.3
MW:	26 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-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]