

Product datasheet for **RR211992**

Gstm4 (NM_001024304) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gstm4 (NM_001024304) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gstm4
Synonyms: MGC108896
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211992 representing NM_001024304
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTATGACTGGGTTACTGGGACATCCGTGGGCTGGCTCATGCTATTCGATTACTCCTGGAATACA
CAGACTCAAGCTATGAGGAGAAGAGATACACCATGGGCGACGCTCCTGACTATGACAGAAGCCAGTGGCT
GAGTGAGAAGTTCAAACCTGGGCCTGGACTTCCCAATCTGCCCTACTTAATCGATGGGTCACACAAGATC
ACCCAGAGCAATGCCATCCTGCGCTATATTGCCCGAAAGCACAACCTGTGTGGGGAGACAGAAGAAGAGA
AGATTCGTGTGGACATTTTGGAGAACCAGGCTATGGATGTCTCCAATCAGCTGGCTAGAGTCTGTTACAG
CCCAGACTTTGAGAACCTGAAGGCGGAATATTTGGAGCAGCTCCCTGGGATGATGGAGCTTTCTCACAG
TTCTGGGGAAGCAGACGTGGTTCGTTGGTGAAAAGATTACTTTGTAGATTTCTTGGCTTATGATATCC
TGGACCTGCACCTTATATTCGAACCAAGTGCCTGGATGCCTTCCCAAACCTGAAGGACTTTGTGGCCCG
CTTCGAGGGACTGAAGAAGATCTCTGTTTACATGAAGACCAGCCGCTTCTCCGGACACCCCTATATACA
AGGGTGGCTACTTGGGGCAATAAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR211992 representing NM_001024304
 Red=Cloning site Green=Tags(s)

MPMTLGYWDIRGLAHAIRLLLEYPDSSYEKRYTMGDAPDYDRSQWLSEKFKLGLDFPNLPYLIDGSHKI
 TQSNAILRYIARKHNLCGETEEKIRVDILENQAMDVSNQLARVCYSPDFENLKAEYLEQLPGMMELFSQ
 FLGKQTFVGEKITFVDFLAYDILDHLIFEPKCLDAFPNLKDFVARFEGLKKISVYMKTSRFLRTPLYT
 RVATWGNK

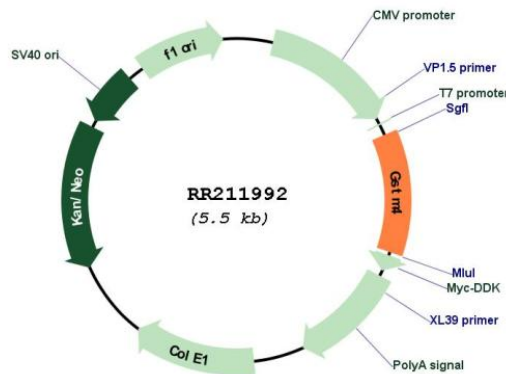
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024304

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_001024304.1 , NP_001019475.1
RefSeq Size:	1583 bp
RefSeq ORF:	657 bp
Locus ID:	499689
UniProt ID:	Q5BK56
Cytogenetics:	2q34
MW:	25.6 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]