

Product datasheet for **RR208666**

Gstm2 (NM_177426) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gstm2 (NM_177426) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gstm2
Synonyms: GSTA4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR208666 representing NM_177426
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTATGACACTGGGTTACTGGGACATCCGTGGGCTGGCTCACGCCATTCGCCTGTTCTCTGGAGTATA
CAGACACAAGCTATGAGGACAAGAAGTACAGCATGGGGGATGCTCCCGACTATGACAGAAGCCAGTGGCT
GAGTGAGAAGTTCAAACCTGGGCTGGACTTCCCAATCTGCCCTACTTAATTGATGGGTACACAAGATC
ACCCAGAGCAATGCCATCCTGCGCTACCTTGCCGGAAGCACAACCTTTGTGGGGAGACAGAGGAGGAGA
GGATTCGTGTGGACGTTTTGGAGAACCAGGCTATGGACACCCGCCTACAGTTGGCCATGGTCTGCTACAG
CCCTGACTTTGAGAGAAAGAAGCCAGAGTACTTAGAGGGTCTCCCTGAGAAGATGAAGCTTTACTCCGAA
TTCTGGGCAAGCAGCCATGGTTTGAGGGAACAAGATTACGTATGTGGATTTTCTTGTTTACGATGTCC
TTGATCAACACCGTATATTTGAACCAAGTGCCTGGACGCCTTCCCAAACCTGAAGGACTTCGTGGCTCG
GTTTGAGGGCTGAAGAAGATATCTGACTACATGAAGAGCGGCCGCTTCTCTCCAAGCCAATCTTTGCA
AAGATGGCCTTTTGAACCCAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208666 representing NM_177426
Red=Cloning site Green=Tags(s)

MPMTLGYWDIRGLAHAIRLFLEYTDTSYEDKKYSMGDAPDYDRSQWLSEKFKLGLDFPNLPYLIDGSHKI
 TQSNAILRYLGRKHNLCGETEERIRVDVLENQAMDTRLQLAMVCYSPDFERKKPEYLEGLPEKMKLYSE
 FLGKQPFAGNKITYVDFLVYDVLQHRIFEPKCLDAFPNLKDFVARFEGLKKISDYMKSGRFLSKPIFA
 KMAFWNPK

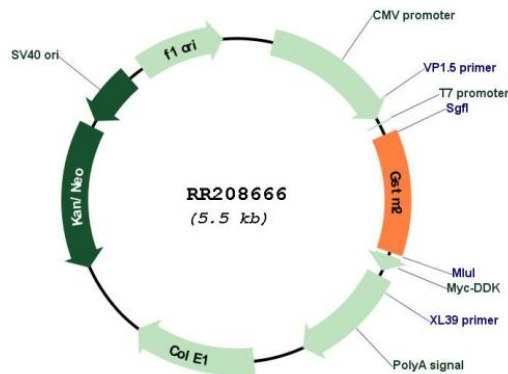
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177426

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_177426.1 , NP_803175.1
RefSeq Size:	657 bp
RefSeq ORF:	657 bp
Locus ID:	24424
UniProt ID:	P08010
Cytogenetics:	2q34
MW:	25.7 kDa
Gene Summary:	subunit of glutathione S-transferase, which may play a role in xenobiotic metabolism and response to oxidative stress [RGD, Feb 2006]