

Product datasheet for **RR200818**

Gstm1 (NM_017014) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gstm1 (NM_017014) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gstm1
Synonyms: GSTA3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200818 representing NM_017014
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTATGATACTGGGATACTGGAACGTCCGCGGGCTGACACACCCGATCCGCCTGCTCCTGGAATACA
CAGACTCAAGCTATGAGGAGAAGAGATACGCCATGGGCGACGCTCCCGACTATGACAGAAGCCAGTGGCT
GAATGAGAAGTTCAAACCTGGGCCTGGACTTCCCAATCTGCCCTACTTAATTGATGGATCGCGCAAGATT
ACCCAGAGCAATGCCATAATGCGCTACCTTGCCCGCAAGCACCACTGTGTGGAGAGACAGAGGAGGAGC
GGATTCGTGCAGACATTGTGGAGAACCAGGTCATGGACAACCGCATGCAGCTCATCATGCTTTGTTACAA
CCCCGACTTTGAGAAGCAGAAGCCAGAGTTCTTGAAGACCATCCCTGAGAAGATGAAGCTCTACTCTGAG
TTCCTGGGCAAGCGACCATGGTTTGAGGGGACAAGGTCACCTATGTGGATTTCTTGCTTATGACATTC
TTGACCAAGTACCACATTTTGGAGCCCAAGTGCCTGGACGCCTTCCCAAACCTGAAGGACTTCTGGCCCG
CTTTGAGGGCCTGAAGAAGATCTCTGCCTACATGAAGAGCAGCCGCTACCTCTCAACACCTATATTTTCG
AAGTTGGCCCAATGGAGTAACAAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200818 representing NM_017014
Red=Cloning site Green=Tags(s)

MPMILGYWNRGLTHPIRLLLEYTDSSYEKRYAMGDAPDYDRSQWLNEKFKLGLDFPNLPYLIDGSRKI
 TQSNAIMRYLARKHHL CGETEEERIRADIVENQVMDNRMLIMLCYNPDFEKQKPEFLKTIPEKMPLYSE
 FLGKRPFAGDKVTYVDFLAYDILDQYHIFEPKCLDAFPNLKDFLARFEGLKKISAYMKSSRYLSTPIFS
 KLAQWSNK

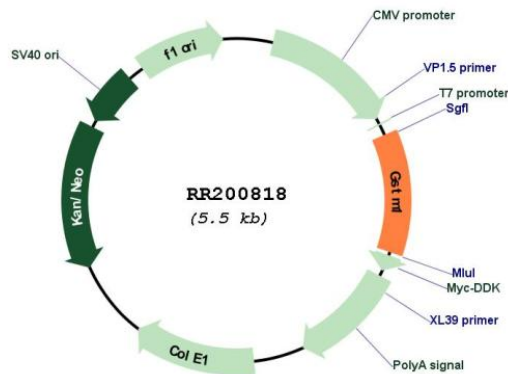
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017014

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_017014.1 , NP_058710.1
RefSeq Size:	1055 bp
RefSeq ORF:	657 bp
Locus ID:	24423
UniProt ID:	P04905
Cytogenetics:	2q34
MW:	25.9 kDa
Gene Summary:	multifunctional enzyme thought to have scavenger function; able to neutralize harmful metabolites from foreign substances [RGD, Feb 2006]