

Product datasheet for **MG202977**

Gstt3 (NM_133994) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gstt3 (NM_133994) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gstt3
Synonyms:	A1118089
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202977 representing NM_133994 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTCTGGAGCTCTACCTGGACCTGATGTCCCAACCCTGCCGTGCTGTCTACATCTTCGCCAAGAAGA
ACGGCATCCCCTTCCAGCTGCGTACCATAGAGCTGCTTAAAGGTCAGCAGTACACAGATTCCTTCGCCCA
GGTGAACCCTTTGAGGAAGGTGCCAGCTTTGAAGGATGGGGACTTCGTCTTGGCAGAGAGTGTGGCCATC
TTGTTGTATCTGAGTAGAAAGTACAAGGCCCCGACCACTGGTACCCTCAGGATCTGCAGACTCGAGCTC
GTGTAGACGAGTACCTGGCATGGCAGCACACAGCCCTGCGGAGTTGTTGCACCAGGGCCATGTGGCAGAA
GATGATGTTCCCTGTGTTCCCTGGGACAGCCGTACCTCCTGAGATGCTGGTATCCACCTTGCTGAACTG
GATGGGTGCCTGCAGGTGCTAGAGGACAAGTTCCTGCGGAACCAGGCCTTCTTACAGGATCCCATATTT
CTGTGGCTGACTTGGTGGCCATCACAGAGCTGATGCATCCTGTCAGTGTGGCTGCAAAATCTTTGAGAG
CCGACCCAAACTGGCTGCCTGGCGTCAGAGAGTAGAAGCCGAAGTGGGGGAGAGCCTCTTCCAGGAGGCC
CATGAAGTTGCTGAAGGCCAAGGATATGCCTCCCTTGTGGACCCTGCCTTGAAGAGAAGCTGAAGC
TCTCTGTGCAGTGTGTTTACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202977 representing NM_133994
 Red=Cloning site Green=Tags(s)

MGLELYLDLMSQPCRAVYIFAKKNGIPFQLRTIELLLKGGQYTD SFAQVNPLRKVPALKDGDVLAESVAI
 LLYLSRKYKAPDHWYPQDLQTRARVDEYLAWQHTALRSCCTRAMWQKMMFPVFLGQPVPPEMLVSTLAEL
 DGCLQVLEDKFLRNQAFLTGSHISVADLVAITELMHPVSAGCKIFESRPKLAAWRQRVEAEVGESL FQEA
 HEVVLKAKDMPPLMDPALKEKLLKLSVQCLLH

TRTRPLE - GFP Tag - V

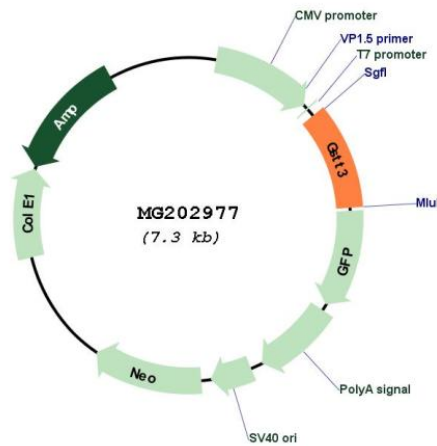
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_133994

ORF Size: 723 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_133994.3 , NP_598755.1
RefSeq Size:	1873 bp
RefSeq ORF:	726 bp
Locus ID:	103140
UniProt ID:	Q99L20
Cytogenetics:	10 C1
Gene Summary:	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Shows high activity towards 4-nitrobenzyl chloride (4-NBC). Also has lower activity towards 1,2-epoxy-3-(p-nitrophenoxy)propane (EPNP), cumene hydroperoxide, 1-chloro-2,4-dinitrobenzene (CDNB), 7-chloro-4-nitrobenzo-2-oxa-1,3-diazole (NBD-Cl), and ethacrynic acid.[UniProtKB/Swiss-Prot Function]