

Product datasheet for **MG202949**

Gsto1 (NM_010362) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gsto1 (NM_010362) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gsto1
Synonyms:	AA407097; AI194287; AU018802; GST; Gsto-1; Gstx; p2; p28; Spg-r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202949 representing NM_010362 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGAGAATCCTCCAGGAGCCTGGGGAAGGGAAGCGCGCCCCCGGCCGGTCCCGGAGGGCCAGA
TCCCGCTACAGCATGAGGTTCTGCCCTTCGCTCAGAGGACGCTGATGGTCTGAAGGCCAAGGGAAT
CCGGCACGAAGTCATCAATATCAACCTGAAGAATAAGCCCGAGTGGTCTTTGAGAAGAATCCCCTGGG
CTGGTCCCGTTCTGGAGAACAGCCAGGGTCACTTGGTCACCGAATCTGTCATCACTTGTGAGTACCTGG
ATGAGGCCTACCCAGAGAAGAAGTTATTTCCAGATGACCCGTACAAGAAGGCACGTCAGAAGATGACCCCT
TGAGTCATTCTCTAAGGTGCCGCTTTGATTGCAAGCTTTGTTAGGTCTGAAGAGAAAGAAAGACTCTCCG
AACCTAAGGGAAGCGTTGGAGAACGAATTCAAAAAGCTAGAGGAGGGCATGGATAATTACAAGAGCTTCC
TTGGTGGGATTCTCCTTCTATGGTTGATTATCTTACTTGGCCTTGGTTTCAGCGACTGGAAGCATTGGA
GCTCAAGGAGTGTCTAGCCACACCCCCAAGCTCAAGCTCTGGATGGCGGCCATGCAGCAAGACCCCTGTG
GCATCCTCTCACAAAATTGATGCCAAGACCTACCGCGAGTACTTAAATCTCTACCTACAGGACAGCCCCG
AGGCCTGTGATTATGGGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202949 representing NM_010362
 Red=Cloning site Green=Tags(s)

MSGESSRSLGKGSAPPGVPEGQIRVYSMRFCPFAQRTLMLVLKAKGIRHEVININLKNKPEWFFFEKNPLG
 LVPVLENSQGHVLTESVITCEYLDEAYPEKLLFPDDPYKARQKMTLESFSKVPPLIASFVRSKRKEDSP
 NLREALENEFFKLEEGMDNYKSFLGGDSPSMVDYLTWPWFQRLEALELKECLAHTPKLKLWMAAMQQDPV
 ASSHKIDAKTYREYLNLYLQDSPEACDYGL

TRTRPLE - GFP Tag - V

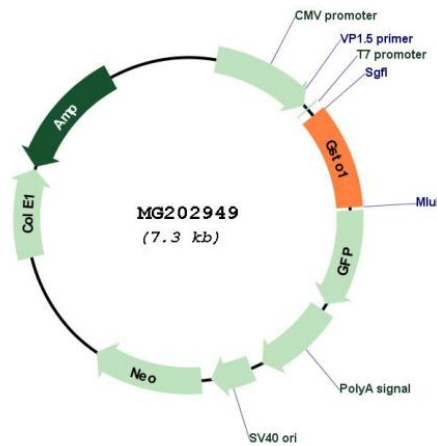
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_010362

ORF Size: 720 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_010362.3 , NP_034492.1
RefSeq Size:	1163 bp
RefSeq ORF:	723 bp
Locus ID:	14873
UniProt ID:	O09131
Cytogenetics:	19 D1
Gene Summary:	This gene encodes a member of the omega class of glutathione S-transferase (GST) proteins. GSTs are involved in the metabolism of xenobiotics and carcinogens. There is evidence that the encoded protein is involved in the biotransformation of arsenic. [provided by RefSeq, Dec 2015]