

Product datasheet for **MG202391**

Gstz1 (NM_010363) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gstz1 (NM_010363) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gstz1
Synonyms:	MAAI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202391 representing NM_010363 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAGCCGGGAAGCCTATCCTCTACTCCTATTTCCGAAGCTCCTGTTTCATGGAGAGTTTCAATTGCTC
TGGCGTTAAAAGGCATTGACTATGAGATAGTGCCCATCAACCTCATAAAGGATGGCGGGCAACAGTTCAC
TGAGGAATTTAGACCCTGAACCCCATGAAGCAAGTGCCAGCGCTGAAAATTGATGGAATCACCATTTGTC
CAGTCACTGGCCATCATGGAGTACCTGGAAGAGACTCGGCCTATCCACGGCTCCTGCCTCAGGACCCAC
AGAAAAGAGCCATCGTGCGCATGATTTCTGACCTCATCGCTAGTGGCATCCAGCCCTTCAGAACCTGTC
TGTCTGAAGCAAGTGGGACAGGAGAACCAGATGCAATGGGCCAAAAGTTATTACTTCCGGCTTTAAC
GCTCTGGAGAAGATTCTGCAGAGCACAGCAGGGAAGTACTGCGTAGGAGATGAGGTATCCATGGCTGATG
TGTGCTTAGTACCCCAAGTGGCAAATGCTGAAAGGTTCAAGGTGGATCTAAGCCCTACCCTACCATCAG
TCACATCAACAAGGAGCTGCTAGCCTTAGAGGTTTTCCAAGTGTCTACCCCGTCGACAGCCAGATACC
CCTGCCGAGCTGAGGACT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202391 representing NM_010363
 Red=Cloning site Green=Tags(s)

MQAGKPILYSYFRSSCSWRVRIALALKGIDYEIVPINLIKDGQQFTEEFQTLNPMKQVPALKIDGITIV
 QSLAIMEYLEETRPIPRLLPQDPQKRAIVRMISDLIASGIQPLQNL SVLKQVQENQMQWAQKVITSGFN
 ALEKILQSTAGKYCVGDEVSMADVCLVPQVANAERFKVDLSPYPTISHINKELLALEVFQVSHPRRPQPD
 PAELRT

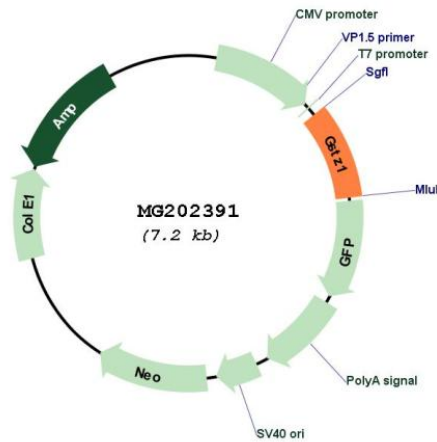
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010363

ORF Size: 648 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_010363.4
RefSeq Size:	1656 bp
RefSeq ORF:	651 bp
Locus ID:	14874
UniProt ID:	Q9WVL0
Cytogenetics:	12 D2
Gene Summary:	Probable bifunctional enzyme showing minimal glutathione-conjugating activity with ethacrynic acid and 7-chloro-4-nitrobenz-2-oxa-1, 3-diazole and maleylacetoacetate isomerase activity. Has also low glutathione peroxidase activity with t-butyl and cumene hydroperoxides. Is able to catalyze the glutathione dependent oxygenation of dichloroacetic acid to glyoxylic acid (By similarity).[UniProtKB/Swiss-Prot Function]