

## Product datasheet for **MC226008**

### **Gstz1 (NM\_001252556) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gstz1 (NM_001252556) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gstz1
Synonyms:	MAAI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226008 representing NM_001252556 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGAAGCAAGTGCCAGCGCTGAAAATTGATGGAATCACCATTGTCCAGTCACTGGCCATCATGGAGTACC  
TGGAAAGACTCGGCCTATCCCACGGCTCTGCCTCAGGACCCACAGAAAAGAGCCATCGTGCGCATGAT  
TTCTGACCTCATCGCTAGTGGCATCCAGCCCTCAGAACCTGTCTGTCTGAAGCAAGTGGACAGGAG  
AACCAGATGCAATGGGCCAAAAGGTTATTACTCCGGCTTTAACGCTCTGGAGAAGATTCTGCAGAGCA  
CAGCAGGGAAGTACTGCGTAGGAGATGAGGTATCCATGGCTGATGTGTGCTTAGTACCCCAAGTGGCAAA  
TGCTGAAAGTTCAAGGTGGATCTAAGCCCTACCCTACCATCAGTCACATCAACAAGGAGCTGCTAGCC  
TTAGAGGTTTTCCAAGTGTCTCACCCCGTCGACAGCCAGATACCCCTGCCGAGCTGAGGACT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001252556
Insert Size:	486 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001252556.1</a></u> , <u><a href="#">NP_001239485.1</a></u>
<b>RefSeq Size:</b>	1615 bp
<b>RefSeq ORF:</b>	486 bp
<b>Locus ID:</b>	14874
<b>UniProt ID:</b>	<u><a href="#">Q9WVL0</a></u>
<b>Cytogenetics:</b>	12 D2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an internal exon, which results in a downstream AUG start codon, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1. Variants 2 and 3 encode the same isoform.</p>