

## Product datasheet for MR228219

### Gstz1 (NM\_001252556) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gstz1 (NM\_001252556) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Gstz1  
**Synonyms:** MAAI  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228219 representing NM\_001252556  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAAGCAAGTGCCAGCGCTGAAAATTGATGGAATCACCATTGTCCAGTCACTGGCCATCATGGAGTACC  
TGAAGAGACTCGGCCTATCCCACGGCTCCTGCCTCAGGACCCACAGAAAAGGCCATCGTGCCGATGAT  
TTCTGACCTCATCGCTAGTGGCATCCAGCCCCTCAGAACCTGTCTGTCTGAAGCAAGTGGACAGGAG  
AACCAGATGCAATGGGCCAAAAGGTTATTACTCCGGCTTAAACGCTCTGGAGAAGATTCTGCAGAGCA  
CAGCAGGGAAGTACTGCGTAGGAGATGAGGTATCCATGGCTGATGTGTGCTTAGTACCCCAAGTGGCAAA  
TGCTGAAAGGTTCAAGGTGGATCTAAGCCCCTACCCTACCATCAGTCACATCAACAAGGAGCTGCTAGCC  
TTAGAGGTTTTCCAAGTGTCTCACCCCGTCGACAGCCAGATACCCTGCCGAGCTGAGGACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228219 representing NM\_001252556  
Red=Cloning site Green=Tags(s)  
MKQVPALKIDGITIVQSLAIMEYLEETRPIRLLPQDPQKRAIVRMISDLIASGIQPLQNLVSKQVQGE  
NQMQWAQKVITSGFNALEKILQSTAGKYCVGDEVSMADVCLVPQVANAERFKVDLSPYPTISHINKELLA  
LEVFQVSHPRRPDTPAELRT

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI





<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>NM_001252556.1, NP_001239485.1</u>
<b>RefSeq Size:</b>	1615 bp
<b>RefSeq ORF:</b>	486 bp
<b>Locus ID:</b>	14874
<b>UniProt ID:</b>	<u>Q9WVL0</u>
<b>Cytogenetics:</b>	12 D2
<b>MW:</b>	18.4 kDa
<b>Gene Summary:</b>	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]