

Product datasheet for MR228218

Gstz1 (NM_001252555) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gstz1 (NM_001252555) 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: >MR228218 representing NM_001252555
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGCAAGTGCCAGCGCTGAAAATTGATGGAATCACCATTGTCCAGTCACTGGCCATCATGGAGTACC
 TGAAGAGACTCGGCCTATCCCACGGCTCCTGCCTCAGGACCCACAGAAAAGAGCCATCGTGCCGATGAT
 TTCTGACCTCATCGCTAGTGGCATCCAGCCCTTCAGAACCTGTCTGTCTGAAGCAAGTGGACAGGAG
 AACCAGATGCAATGGGCCAAAAGGTTATTACTCCGGCTTAAACGCTCTGGAGAAGATTCTGCAGAGCA
 CAGCAGGGAAGTACTGCGTAGGAGATGAGGTATCCATGGCTGATGTGTGCTTAGTACCCCAAGTGGCAAA
 TGCTGAAAGGTTCAAGGTGGATCTAAGCCCTACCCTACCATCAGTCACATCAACAAGGAGCTGCTAGCC
 TTAGAGGTTTTCCAAGTGTCTCACCCCGTCGACAGCCAGATACCCTGCCGAGCTGAGGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228218 representing NM_001252555
 Red=Cloning site Green=Tags(s)

MKQVPALKIDGITIVQSLAIMEYLEETRPIRLLPQDPQKRAIVRMISDLIASGIQPLQNLVSKQVQGE
 NQMOWAQKVITSGFNALEKILQSTAGKYCVGDEVSMADVCLVPQVANAERFKVDLSPYPTISHINKELLA
 LEVFQVSHPRRPDTPAELRT

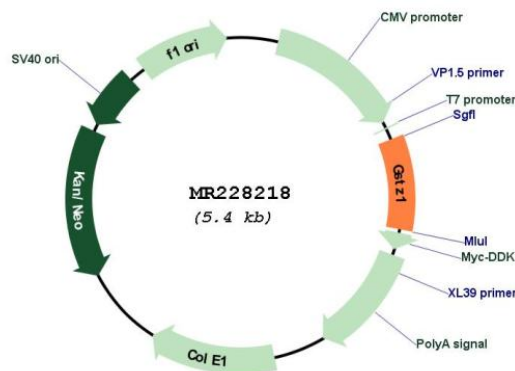
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001252555

ORF Size: 483 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:	<u>NM_001252555.1, NP_001239484.1</u>
RefSeq Size:	1986 bp
RefSeq ORF:	486 bp
Locus ID:	14874
UniProt ID:	<u>Q9WVL0</u>
Cytogenetics:	12 D2
MW:	18.4 kDa
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]