

Product datasheet for **RR203475**

Gstz1 (NM_001109445) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gstz1 (NM_001109445) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gstz1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203475 representing NM_001109445
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAGCCGGGAAGCCTGTTCTCTATTCTATTTCCGAAGCTCCTGTTTCATGGAGAGTTCGAATTGCTC
TGGCGTTAAAAGGCATTGACTATGAGATAGTGCCCATCAACCTCATAAAGGATGGCGGGCAACAGTTCTC
CGAGGAATTTAGACCCCTGAATCCCATGAAGCAAGTCCAGCAGTGAAGATTGATGGAATCACCATTGGC
CAGTCACTGGCCATCCTGGAGTACCTGGAAGAGACTCGACCCATCCCACGGCTCCTGCCCCAGGACCCAC
AGAAAAGAGCCATCGTGCGCATGATTTCTGACCTCATCGCCAGTGGCATCCAGCCCTTCAGAACCTGTC
TGTCTGAAGCAAGTGGGACAGGAGAACCAGATGCCTTGGGCCAAAAGGCTATTACTTCCGGCTTTAAT
GCTCTGGAGAAGATCCTGCAAAGCACAGCAGGGAAGTACTGTGTAGGAGATGAGGTGCCATGGCTGATG
TGTGCTTAGCGCCCAAGTGGCAAATGCTGAAAGGTTCAAGGTGGACCTAAGCCCTACCCTACCATCAG
TCACATCAACAAGGCACTGCTGGCCTTAGAGGCTTCCAAGTGTCTACCCCTGTCGACAGCCAGATACA
CCGGCCGAGCTGAGGACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203475 representing NM_001109445
Red=Cloning site Green=Tags(s)

MQAGKPVLYSYFRSSCSWRVRIALALKGIDYEIVPINLIKDGGQQFSEEFQTLNPMKQVPALKIDGITIG
QSLAILEYLEETRPIPRLLPQDPQKRAIVRMISDLIASGIQPLQNLVSLKQVQENQMPWAQKAITSGFN
ALEKILQSTAGKYCVGDEVSMADVCLAPQVANAERFKVDLSPYPTISHINKALLALEAFQVSHPCRQPD
PAELRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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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_001109445.1</u> , <u>NP_001102915.1</u>
RefSeq Size:	1670 bp
RefSeq ORF:	651 bp
Locus ID:	681913
UniProt ID:	<u>P57113</u>
Cytogenetics:	6q31
MW:	24 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 (By similarity). Is able to catalyze the glutathione dependent oxygenation of dichloroacetic acid to glyoxylic acid.[UniProtKB/Swiss-Prot Function]