

Product datasheet for **MC212564**

Mgst2 (NM_174995) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mgst2 (NM_174995) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mgst2
Synonyms: GST2; MGST-II
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212564 representing NM_174995
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGGGATTCAAGCCTGCTGGCTGCAGTCTCTTCTCTCTGCCTGTCAGCAAAGTTATTTTCGCTT
 GGCGGGTCGGACGAGCAAGACTAAAACACAAGATTGCACCCCGAGCAGTCACGGGCCCTCTGGAATTCGA
 GAGAATATTTTCGTGCACAGCAAACTCTTTGGAGTTTTATCCTGTATTCATCGTAATGCTGTGGATGGCT
 GGGTGGTACTTCAATCAAGTTTTTGCAGCCTGCTGGGTCTCCTGTACATACGCCCGTACAAGTATT
 TCTGGGGCTATGCCGAAGCCGCTGAGAAAAGGATCACCGGTTTCCGACTGAGCCTGGGGATTTTGACCTT
 GCTGCCTGCTCCTCGCTGTCTGGGGTAGCAAGCAGATTCTGAACGAATACCTGGACTTTCATGTTGCC
 AAGAACTGAGGAAGCCCTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_174995
Insert Size: 444 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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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_174995.3</u> , <u>NP_778160.2</u>
RefSeq Size:	614 bp
RefSeq ORF:	444 bp
Locus ID:	211666
UniProt ID:	<u>A2RST1</u>
Cytogenetics:	3 C
Gene Summary:	<p>Catalyzes several different glutathione-dependent reactions. Catalyzes the glutathione-dependent reduction of lipid hydroperoxides, such as 5-HPETE. Has glutathione transferase activity, toward xenobiotic electrophiles, such as 1-chloro-2, 4-dinitrobenzene (CDNB). Catalyzes also the conjugation of leukotriene A4 with reduced glutathione to form leukotriene C4 (LTC4) (By similarity). Involved in oxidative DNA damage induced by ER stress and anticancer agents by activating LTC4 biosynthetic machinery in nonimmune cells (PubMed:26656251).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>