

Product datasheet for **SC124600**

Microsomal Glutathione S transferase 1 (MGST1) (NM_145792) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Microsomal Glutathione S transferase 1 (MGST1) (NM_145792) Human Untagged Clone
Tag:	Tag Free
Symbol:	MGST1
Synonyms:	GST12; MGST; MGST-I
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145792, the custom clone sequence may differ by one or more nucleotides

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ATGGTTGACCTCACCCAGGTAATGGATGATGAAGTATTCATGGCTTTTGCATCCTATGCAACAATTATTC
TTTCAAAAATGATGCTTATGAGTACTGCAACTGCATTCTATAGATTGACAAGAAAGGTTTTTGCCAAATCC
AGAAGACTGTGTAGCATTGGCAAAGGAGAAAAATGCCAAGAAGTATCTTCGAACAGATGACAGAGTAGAA
CGTGTACGCAGAGCCCACCTGAATGACCTTAAAAATATTATCCATTTCTTGAATTGGCCTCCTGTATT
CCTTGAGTGGTCCCGACCCCTCTACAGCCATCCTGCACCTCAGACTATTTGTCGGAGCACGGATCTACCA
CACCATTGCATATTTGACACCCCTTCCCAGCCAATAGAGCTTTGAGTTTTTTTGTGGATATGGAGTT
ACTCTTCCATGGCTTACAGGTTGCTGAAAAGTAAATTGTACCTGTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_145792 unedited CCTGTACAAAATTTGTAATACGACTCACTATAGGGCGGCCGCGAAATTCGCACGATCGGC GGGACAGGCTTGCTGCTTCTCTCCTCGGCCTCACCATTCCAGACCAAAAATTGAAAAAT GGTTGACCTCACCCAGGTAATGGATGATGAAGTATTCATGGCTTTTGCATCCTATGCAAC AATTATTCTTTCAAAAATGATGCTTATGAGTACTGCAACTGCATTCTATAGATTGACAAG AAAGGTTTTTGGCAATCCAGAAGACTGTGTAGCATTGGCAAAGGAGAAAAATGCCAAGAA GTATCTTCGAACAGATGACAGAGTAGAACGTGTACGCAGAGCCACCTGAATGACCTTGA AAATATTATTCCATTTCTTGAATTGGCCTCCTGTATTCTTGTAGTGGTCCCGACCCCTC TACAGCCATCCTGCACTTCATACTATTTGTGCGAGCACGGATCTACCACACCATTGCATA TTTGACACCCCTTCCCCATCCAAATAGAGCTTTGAGTTTTTTTTGTTGGATATGGAGTTAC TCTTTCCATGGCTTACAGGTTGCTGAAAAGTAAATTGTACCTGTAAAGAAAAATCATAAA CTCAGCATCCAGTTGGCTTTTTAAGAATTCTGTACTTCCAATTTATAATGAATACTTTCT TAGATTCTACGTAGGAGGGGAGCAGATGAATTATGAACTGGGGTAAACCCATTTTGAATA TTATCATTGCCAATATCCTGTATTCTTGTNTACATTTGGATTAGAAATTTAACATAGTA ATTCTTAAGTCTTTTGTCTGATTTTTAAAGTACTTTCTTATAAATTTGGATCATGTTATG ATNTGTAACATTACACACACCTCACTTTTGAATCTATNAAAGATTTGCACGTATGAGA AAACTATATTTTACTACTGCTGAACAGACATGAATAAAGAATTN
Restriction Sites:	NotI-NotI
ACCN:	NM_145792
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).
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_145792.1</u> , <u>NP_665735.1</u>
RefSeq Size:	909 bp
RefSeq ORF:	468 bp
Locus ID:	4257
UniProt ID:	<u>P10620</u>
Cytogenetics:	12p12.3
Domains:	MAPEG
Protein Families:	Druggable Genome, Transmembrane

Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
Gene Summary:	<p>The MAPEG (Membrane Associated Proteins in Eicosanoid and Glutathione metabolism) family consists of six human proteins, two of which are involved in the production of leukotrienes and prostaglandin E, important mediators of inflammation. Other family members, demonstrating glutathione S-transferase and peroxidase activities, are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. This gene encodes a protein that catalyzes the conjugation of glutathione to electrophiles and the reduction of lipid hydroperoxides. This protein is localized to the endoplasmic reticulum and outer mitochondrial membrane where it is thought to protect these membranes from oxidative stress. Several transcript variants, some non-protein coding and some protein coding, have been found for this gene. [provided by RefSeq, May 2012]</p> <p>Transcript Variant: This variant (1, also called 1a) encodes isoform a. Variants 1, 2, 3, 4, and 5 all encode the same isoform (a).</p>