

Product datasheet for **SC118639**

MGST2 (NM_002413) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGST2 (NM_002413) Human Untagged Clone
Tag:	Tag Free
Symbol:	MGST2
Synonyms:	GST2; MGST-II
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118639 sequence for NM_002413 edited (data generated by NextGen Sequencing)

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ATGGCCGGGAACTCGATCCTGCTGGCTGCTGTCTCTATTCTCTCGCCTGTCAGCAAAGT
TATTTTGCTTTGCAAGTTGGAAAGCAAGATTAATAACAAAGTTACGCCCCAGCAGTC
ACTGGGTCACCAAGTTTGGAGAGTATTTGGGCAACAACAAACTGTGTGGAGTTTAT
CCTATATTCATAATTACATTGGGATGGCTGGTGGTATTTCAACCAAGTTTGTCTACT
TGTCTGGGCTGGTGTACATATATGGCCGTCACCTATACTTCTGGGGATATTCAGAAGCT
GCTAAAAACGGATCACCGGTTTCCGACTGAGTCTGGGGATTTGGCCTTGTGACCCTC
CTAGGTGCCCTGGGAATTGCAAACAGCTTCTGGATGAATATCTGGACCTCAATATTGCC
AAGAAACTGAGGCGCAATTCTAA
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Clone variation with respect to NM_002413.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002413 unedited
 CCGGTTTGGAAACCCACCTCCTGAGGGCGGCAAAACCTTCGCACGAGGTCTGACTTCT
 GTTCCAAGCAAAGGTCATTTCAGCCGCTTGAATCAGCCTTTTCCCCCACCCTGGTCCCA
 ACTTTGTTTACCCGATAAGGAAGTTCAGCATTCAAAGTCAAGAAGCGCCATTTATCTTCC
 CGTGCGCTCTACAAATAGTTCGGAGAATATGCTGGAACTCGATCCTGCTGGCTGCTGT
 CTCTATTCTCTCGCCTGTCAGCAAAGTTATTTTGCTTTGCAAGTTGAAAGCAAGATT
 AAAATACAAAGTTACGCCCCAGCAGTCACTGGGTCAACCAGAGTTTGAGAGAGATTTTCG
 GGCACAACAAAAGTGTGTGGAGTTTATCCTATATTCATAATTACATTGTGGATGGCTGG
 GTGGTATTTCAACCAAGTTTTTGTACTTGTCTGGGTCTGGTGTACATATATGGCCGTC
 CCTATACTTCTGGGGATATTGAGAAGCTGCTAAAAACGGATCACCGGTTTCCGACTGAG
 TCTGGGGATTTTGGCCTTGTGACCCTCCTAGGTGCCCTGAGAATTGCAAACAGCTTTCT
 GGTGAATATCTGGACCTCAATATTGCCAAGAACTGANGCGGCAATTCTAACTTTTTCT
 CTTCCCTTAATGCTTGCAGAAGCTGTTCCACCATGAAAGTAATATGGTATCATCTTGT
 AAAATAAAATAAAGTCTTTATTCTGAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCAG
 CCGCCGTCATAGCTGTTTCTGAACAGATCCCCGGTGGCATNCCTGTGACCCCTCCAGT
 GCCTTCTCTGGCCTTGAAGTTGCCACTCCAGTGCCACCAGCCTTGGCCCTATAAATTA
 GGTGCATCATTTGTCTGACTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002413 unedited
 CGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCAGAATAAAAACTTTATTTTTATTT
 AACAAATGATACCATATTACCTTCATGGTGGGAACAGCTTCTGCAAGCATTAAAGGGAAG
 AGAAAAAGTTAGAATTGCCGCTCAGTTTCTTGGCAATATTGAGGTCCAGATATTCATCC
 AGAAAGCTGTTTGAATTTCCAGGGCACCTAGGAGGGTCAACAAGGCCAAAATCCCAG
 CTCAGTCGGAAACCGGTGATCCGTTTTTTCAGCAGCTTCTGAATATCCCCAGAAATAGG
 TGACGGCCATATATGTACACCAGACCCAGACAAGTAGCAAAAACTTGGTTGAAATACCAC
 CCAGCCATCCACAATGTAATTATGAATATAGGATAAACTCCACACAGTTTTTGTGTGCC
 CGAAATACTCTCTCAAACCTGTTGACCCAGTACTGCTGGGGCGTAACTTTGTATTTT
 AATCTTGCCTTTCCAACCTGCAAAGCAAATAACTTTGCTGACAGGCCGAGAGAATAGAG
 ACAGCAGCCAGCAGGATCGAGTTCGCGCCATCTTCTCACGGAACATTTGTAGAGCGC
 ACGGGAAGATAAATGGCGCTTCTTGAATTTGAATGCTGACCTTCCTTATCGGGTAAACAA
 AGTTGGGGACCGGGTGGGGGAAAAGGCTGATTCAAGCGGCTGAATGACCTTTGCTCTG
 GAAACAGAGTCANGACCTCGTGCGAATTCGCGGGCCCTATAGTGAGTCGTATTACAA
 AATCCTGACGGTCACTAAACGAGCTCTGCTATATAGACCTCCACCGTACACCCTACCGCC
 ATTTGCGTAACGGGGCGGGTTATACAACATTTGGAAGTCCGTGATTTTGTGAAACAAC
 TCCATGACTAAGGGGGGAACTGAAATCCCGGATCACACGTTCCGCCATGGGGCTGGCAA
 CGCTCCATGGTATAGAGACAACG

Restriction Sites:

NotI-NotI

ACCN:

NM_002413

Insert Size:

680 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).

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:	NM_002413.3 , NP_002404.1
RefSeq Size:	802 bp
RefSeq ORF:	444 bp
Locus ID:	4258
UniProt ID:	Q99735
Cytogenetics:	4q31.1
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, several of which are involved in the production of leukotrienes and prostaglandin E, important mediators of inflammation. This gene encodes a protein which catalyzes the conjugation of leukotriene A4 and reduced glutathione to produce leukotriene C4. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene. [provided by RefSeq, Feb 2011]</p> <p>Transcript Variant: This variant (1) is a predominant transcript and encodes the longest isoform (1).</p>