

Product datasheet for SC119651

GSTM2 (NM_000848) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSTM2 (NM_000848) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSTM2
Synonyms:	GST4; GSTM; GSTM2-2; GTHMUS
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC119651 sequence for NM_000848 edited (data generated by NextGen Sequencing) ATGCCCATGACACTGGGGTACTGGAACATCYGCGGGCTGGCCCATTCCATCCGCCTGCTC CTGGAATACACAGACTCAAGCTACGAGGAAAAGAAGTACACGATGGGGGACGCTCCTGAT TATGACAGAAGCCAGTGGCTGAATGAAAAATTCAAGCTGGGCCTGGACTTCCCAATCTG CCCTACTTGATTGATGGGACTCACAAAGATCACCCAGAGCAAYGCCATCCTGCGGTACATT GCCCGCAAGCACAACTGTGCGGGGAATCAGAAAAGGAGCAGATTCGCGAAGACATTTTG GAGAACCAGTTTATGGACAGCCGTATGCAGCTGGCCAAACTCTGCTATGACCCAGATTTT GAGAAACTGAAACCAGAATACCTGCAGGCACTCCCTGAAATGCTGAAGCTCTACTCACAG TTTCTGGGGAAGCAGCCATGGTTTCTTGGGGACAAGATCACCTTTGTGGATTTTCATCGCT TATGATGTCCTTGAGAGAAACCAAGTATTTGAGCCCAGCTGCCTGGATGCCTTCCCAAAC CTGAAGGACTTTCATCTCCGATTTGAGGGCTTGGAGAAGATCTCTGCCTACATGAAGTCC AGCCGCTTCTCCCAAGACCTGTGTTTCAAAAGATGGCTGTCTGGGGCAACAAGTAG Clone variation with respect to NM_000848.3 31 c=>y;222 c=>y



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000848 unedited TGCAAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGAGCAACCAGC ACCATGCCATGACACTGGGGTACTGGAACATCTGCGGGCTGGCCATTCCATCCGCCTG CTCCTGGAATACACAGACTCAAGCTACGAGGAAAAGAAGTACACGATGGGGGACGCTCC TGATTATGACAGAAGCCAGTGGCTGAATGAAAAATTCAGCTGGGCCTGGACTTTCCCAA TCTGCCCTACTTGATTGATGGGACTCACAAAGATCACCCAGAGCAATGCCATCCTGCGGTA CATTGCCGCAAGCACAACTGTGCGGGGAATCAGAAAAGGAGCAGATTTCGCGAAGACAT TTTGAGAACAGTTTATGGACAGCCGTATGCAGCTGGCCAAACTCTGCTATGACCCAGA TTTTGAGAAACTGAAACAGAATACCTGCAGGCACTCCCTGAAATGCTGAAGCTCTACTC ACAGTTTCTGGGAAGCAGCCATGGTTTCTTGGGGACAAGATCACCTTTGTGGATTTTCAT CGCTTATGATGTCCTTGAGAGAAACCAAGTATTTGAGCCAGCTGCCTGGATGCCTTCCC AAACCTGAAGGACTTCATCTCCCGATTTGAGGGCTTGGAGAAGATCTCTGCCTACATGAA GTCCAGCCGCTTCTCCCAAGACCTGTGTTCAAAAGATGGCTGTCTGGGGCAACAAGTA GGGCTTGAAGCCACGAAGTGGGAGTGAGGAGCCATACTCAGCCTGCTGCCAGGCTG TGCAGCGCAGCTGGACTCTGCATCCACACCTGCCTCCTTGTTCCTTTTCTGGTTATTN CCATCTTTACTCCAAAACCTTATTGTCCCTCTTNACTCCCCTAACCCCTGTCCATGCAG GCCCTT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000848 unedited ACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTGGGTGAGGCTTTAC TTCCATCAGGTAGGCCTAAGGCAGGGACCATGCTGCAGGAGCAGGGCCTGTAAACCAGTC AATGCTGCTCCTTCATGCAACACGGGGACAGCTCGGGGCTGAGCTCCACAGGCGAGGGGC CAGGCAGGCCCTTAAAGCAGACACAACCACTAACAGGAAGGAAGGTGAGGCTGGCTTTA GTGCAGGGAAGGGTAATGATGGGAGGGGATGTTACGAAGGATAGTGGGTAGCTGAGGCT TCAAAGGGCCTGCATGGGACAGGGTTTTAGGGGAGTGAAGAGGACAATGAAGTCTTGG GAGTAAAGATGGGAATAAACAGGAGAAAGAACGAGGAGGAGGCTGGGATGCAAAGT CCAGCTGCGCTGCACAGCCTGGGCAGCAGGCTGAGTATGGGCTCCTCACTCCACCTCCT GGCCTTCAAGGCCCTACTTGTGCCCCAGACAGCCATCTTTGTGAACACAGGTCTTGGGA GGAAGCGGCTGGACTTTCATGTANGCAGAGATCTTCTCAAAGCCCTCAAATCGGGAGATGA AGTCTTCANGTTTGGGAAGGCATCCAGGCAGCTGGGCTCAAATACTTGGNTTCTCTCAA GGACATCATAAGCGATGAAATCCACAAGGTGATCTTGTCCCAAGAACCATGGCTGCTCC CCCAAACTGTGAGTAGAGCTTCAGCATTTTCAGGGAGTGCCTTGCAGTATTCTGGGTTTC AGTTCTCAAATCTGGGTGATAACANAATTTGGCCCACTGCATACCGCTGTCCATAAACTG GTTCTCCAAAAGTCTTCGCGAATCTGCTCCTTTTCTGAATCCCCGCACAGTTGTGCTTG CGCCATGTACCGCAGGAAGCACTGCTTCGGGGACCTTGGGAACCCCATCATACT
Restriction Sites:	NotI-NotI
ACCN:	NM_000848
Insert Size:	1200 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).
RefSeq:	NM_000848.2 , NP_000839.1
RefSeq Size:	1166 bp
RefSeq ORF:	657 bp
Locus ID:	2946

UniProt ID:	P28161 , A0A384P5E9 , Q0D2I8
Domains:	GST_N, GST_C
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
Gene Summary:	<p>Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase that belongs to the mu class. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 and are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer isoform (1).</p>