

Product datasheet for **SC119657**

Glutathione S Transferase theta 2 (GSTT2) (NM_000854) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glutathione S Transferase theta 2 (GSTT2) (NM_000854) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSTT2
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000854, the custom clone sequence may differ by one or more nucleotides

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ATGGGCCTAGAGCTGTTTCTTGACCTGGTGTCCAGCCCAGCCGCGCCGTCTACATCTTCGCCAAGAAGA  
ATGGCATCCCCTTAGAGCTGCGCACCGTGGATTGGTCAAAGGGCAGCACAAGAGCAAGGAGTTCCTTGCA  
GATCAACAGCCTGGGGAACTGCCGACGCTCAAGGATGGTGATTCATCTTGACCGAAAGCTCGGCCATC  
CTGATTTACCTGAGCTGTAAGTACCAGACGCCGACCACTGGTATCCATCTGACCTGCAGGCTCGTGCCC  
GTGTTTCATGAGTACCTGGCTGGCATGCCGACTGCATCCGTGGCACCTTTGGTATACCCCTGTGGGTCCA  
GGTGTTGGGGCCACTCATTGGGGTCCAGGTGCCCGAGGAGAAGGTGGAACGCAACAGGACTGCCATGGAC  
CAGGCCCTGCAATGGCTGGAGGACAAGTTCCTGGGGGACAGGCCCTTCCTCGCTGGCCAGCAGGTGACAC  
TGGCTGATCTCATGGCCCTGGAGGAGCTGATGCAGCCGGTGGCTCTCGGCTATGAACTGTTTGAGGGACG  
GCCACGACTGGCAGCATGGCGTGGACGAGTGGAGGCTTTCCTGGGTGCTGAGCTATGCCAGGAGGCCAC  
AGCATCATCTTGAGCATCCTGGAACAGGCGCCAAGAAAACCCTCCCAACACCCTCACCAGAGGCCTATC  
AGGCTATGCTGCTTGAATCGCCAGGATCCCCTGA
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5' Read Nucleotide Sequence: >OriGene 5' read for NM_000854 unedited
 ATTTGTAATACGACTCACTATAGAGGCGGCCGCGATTTCGGCACGAGGCCGCGCTCAGCGC
 CTTCACTGCCATCCCCGCTGTCTTGCCGCCCCCGCCATGGGCCCTAGAGCTGTTTCTTGA
 CCTGGTGTCCCAGCCCAGCCGCGCCGTCTACATCTTCGCCAAGAAGAATGGCATCCCCTT
 AGAGCTGGCACCGTGGATTTGGTCAAAGGGCAGCACAAGAGCAAGGAGTTCTTGCGAT
 CAACAGCCTGGGAAACTGCCGACGCTCAAGGATGGTGATTTTCATCTTGACCGAAAGCTC
 GGCCATCCTGATTTACCTGAGCTGTAAGTACCAGACGCCGGACCACTGGTATCCATCTGA
 CCTGCAGGCTCGTGCCCGTGTTCATGAGTACCTGGGCTGGCATGCCGACTGCATCCGTGG
 CACCTTTGGTATACCCCTGTGGGTCCAGGTGTTGGGGCCACTATTGGGGTCCAGGTGCC
 CGAGGAGAAGGTGGAACGCAACAGGACTGCCATGGACCAGGCCCTGCAATGGCTGGAGGA
 CAAGTTCCTGAGGAACAGGCCCTTCTCGCTGGCCAGCAGGTGACACTGGCTGATCTCAT
 GGCCCTGGAGGAGCTGATGCAGCCGGTGGCTCTCGGCTATGAACTGTTTGAGGGACGGCC
 ACGACTGGCAGCATGGCGTGGACGAGTGGAGGCTTTCCTGGGTGCTGAGCTATGCCAGNA
 GGCCACAGCATCATCTTGAGCATCCTGGAACAGGCGGNAAGATAACCCTCCCCACACC
 CTCACCAGAGGCTATCAGGCTATGCTGCTTTCGATCGGCAAGATCCCCTGAAGGGTCTG
 GATTGGGGGGCCAGAAATANCACCAGGATTCATTCTGNTACTTACTTGGCCCTTTTAT
 CTTTCCCTTTGGCCCAGNCCTTTCTCTCAACT

3' Read Nucleotide Sequence: >OriGene 3' read for NM_000854 unedited
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCTATTCAAAGTGTGG
 AATCTTTATTCTGTTTAAAACACTGATGACATTTGCCAATTTTTGAGTGTCTTCATGTT
 ACTGATTTGTAGGAGCTCTTTATATATTGCAGATTTAGTCTTACTGGTTATGTATGCT
 GCACCTGAGGAGTAGAAGCACTGCCAAGGACACTGAGTGTCTGTCTGTGCAGAGCTTCA
 CATGAAGCTGGAGAGAAGGGACTGGGGCAAGAGGAAAGATAAAAAGGGGCAAGTAAGTA
 ACAGAAATGAATCCTTGTGCTAATCTCCTGGCCCCATCCCAGACCCTCAGGGGATCCT
 GGCGATTCTGAAGCAGCATAGCCTGATAGGCCTCTGGTGGGGTGTGGGAGGGTTTTCTT
 GGCCGCTGTTCCAGGATGCTCAAGATGATGCTGTGGGCTCCTGGCATAGCTCAGCACC
 CAGGAAAAGCCTCCAATCGTCCACGCCATGCTGCCAGTCGTGGCCGTCCCTCAAACAGTTC
 ATACCCGAGAGCCACCGGCTGCATCACCTCCTCCAGGGCCATGAGATCAGCCAGTGTAC
 CTGCTGGCCCACGAGGAAGGGCCTGTTCCCCAGGAACTTGTCTTCAGCCATTGCAGGGC
 CTGGCCCATGGCAGTCTGTTGCGTCTCACCTCCTCCGGCACCTGGACCCCATGAGTG
 GCCCAACACCTGGACCCACAGGGGTATACAAAAGTGGCCCGATGCATTCCGCATGCCA
 CCCACGCCACTATGACAAGGGCCGACCCTGCCAGCCATCACGAAACCAGTTGTCCCGN
 GCCGGCACTTACCGCTAATGCAATCATGATGCGCCGCTTTGGCCACATGACACACCATC
 TTGACCCCGCGTCTCCTAGCTGTCGATTTGAAAACCTCTGTTTTGGGGCGCCTCACA
 AAACCAGGCGCCCTTAAAGGCAGCCCTTCCCTGGC

Restriction Sites: NotI-NotI

ACCN: NM_000854

Insert Size: 1170 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

RefSeq: [NM_000854.2](#), [NP_000845.1](#)

RefSeq Size: 1100 bp

RefSeq ORF: 735 bp

Locus ID: 2953

UniProt ID: [P0CG29](#)

Domains: GST_N, GST_C

Protein Pathways: Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450

Gene Summary: The protein encoded by this gene, glutathione S-transferase (GST) theta 2 (GSTT2), is a member of a superfamily of proteins that catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. Human GSTs can be divided into five main classes: alpha, mu, pi, theta, and zeta. The theta class includes GSTT1, GSTT2, and GSTT2B. GSTT2 and GSTT2B are nearly identical to each other, and share 55% amino acid identity with GSTT1. All three genes may play a role in human carcinogenesis. The GSTT2 gene is a pseudogene in some populations. [provided by RefSeq, Sep 2015]
Transcript Variant: This variant (1, coding) encodes the longer isoform (a). This variant represents the ALT_REF_LOCI_1 alternate haplotype in the GRCh38 reference genome assembly.