

Product datasheet for SC119655

GST3 (GSTP1) (NM_000852) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GST3 (GSTP1) (NM_000852) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSTP1
Synonyms:	DFN7; FAEES3; GST3; GSTP; HEL-S-22; PI
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC119655 sequence for NM_000852 edited (data generated by NextGen Sequencing)

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ATGCCGCCCTACACCGTGGTCTATTTCCAGTTCGAGGCCGCTGCGCGGCCCTGCGCATG
CTGCTGGCAGATCAGGGCCAGAGCTGGAAGGAGGAGGTGGTGACCGTGGAGACGTGGCAG
GAGGGCTCACTCAAAGCCTCCTGCCTATACGGGCAGCTCCCCAAGTTCAGGACGGAGAC
CTCACCTGTACCAGTCCAATACCATCCTGCGTCACCTGGGCCGCACCCTTGGGCTCTAT
GGGAAGGACCAGCAGGAGGCAGCCCTGGTGGACATGGTGAATGACGGCGTGGAGGACCTC
CGCTGCAAATACATCTCCCTCATCTACACCAACTATGAGGCGGGCAAGGATGACTATGTG
AAGGCACTGCCCGGGCAACTGAAGCCTTTTGAGACCCTGCTGTCCAGAACCAGGGAGGC
AAGACCTTCATTGTGGGAGACCAGATCTCCTTCGCTGACTACAACCTGCTGGACTTGCTG
CTGATCCATGAGGTCCTAGCCCCCTGGCTGCCTGGATGCGTTCGCCCTGCTCTCAGCATAT
GTGGGGCGCCTCAGTGCCCGGCCAAGCTCAAGGCCTTCTGGCCTCCCCTGAGTACGTG
AACCTCCCATCAATGGCAACGGGAAACAGTGA
```

Clone variation with respect to NM_000852.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000852 unedited
CACGAGGGCTCGGAGGCCGCGAGGCCTTCGCTGGAGTTTCGCGCCGCGCAGTCTTCGCCAC
CATGCCGCCCTACACCGTGGTCTATTTCCAGTTTCGAGGCCGCTGCGCGGCCCTGCGCAT
GCTGCTGGCAGATCAGGGCCAGAGCTGGAAGGAGGAGGTGGTACCGTGGAGACGTGGCA
GGAGGGCTCACTCAAAGCCTCCTGCCTATACGGGCAGCTCCCCAAGTTCAGGACGGAGA
CCTCACCTGTACCAGTCCAATACCATCCTGCGTCACCTGGGCCGCACCCCTGGGCTCTA
TGGGAAGGACCAGCAGGAGGCAGCCCTGGTGGACATGGTGAATGACGGCGTGGAGGACCT
CCGCTGCAAATACATCTCCCTCATCTACACCAACTATGAGGCGGGCAAGGATGACTATGT
GAAGGCACTGCCCGGCAACTGAAGCCTTTTGAGACCCTGCTGTCCCAGAACAGGGAGG
CAAGACCTTCATTGTGGGAGACCAGATCTCCTTCGCTGACTACAACCTGCTGGACTTGCT
GCTGATCCATGAGGTCTAGCCCTGGCTGCCTGGATGCGTTCCCCCTGCTCTCAGCATA
TGTGGGGCGCCTCAGTCCCCGGCCAAGCTCAAGGCCTTCTGGCCTCCCTGAGTACGT
GAACCTCCCCATCAATGGCAACGGGAAACAGTGAGGGTTGGGGGACTCTGAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000852 unedited
CGCGGGCCGCAATCTANAATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTAACTCTCTTAAAAATTTATTGGTCTGGAAAAAGGAAGG
AACTTTGCCTCCCGCTTAAAATCCCCCAACCCTTACTGTTTCCGTTGCCATTGATGG
GGAGGTTACGTACTCAGGGGAGGCCAAAAAGGCCTTGAAGTTGGGCCGGGCACTGAGGC
CCCCACATTTTCTGAAAACAGGGGAACCCATCCAGGCACCCAGGGCTAGGACCTCAT
GGATCAACAGCAAGTCCAACAGTTGTAATCAACGAAAGAAATCTGGTCTCCACAATGA
AAGGCTTGCTCCCTGGTCTGGGACAACAGGTCTCAAAGGGTTTAATTGCCCGGGCA
GGCCTTCACATAATCATCCTTGCCCCCTCATATTGGGGTAAATGAGGGAAAAGTATT
TGACGCGGAGGGCTCCACCCCGTCATTACCATGTCCACCAGGGCTGCCTCCTGCTGGT
CCTTCCATAAAAACCAAGGGTGCAGCCCAAGTACCCCAAGATGGTATTGGACTGGTACA
GGGTGAGGGCTCCGTCCTGGACTTGGGGAGCTGCCCGTAAGGCAAGAAGCTTTGAATGAG
CCCTTCTGGCAGCTTCCACGGTAACCACTCTCTTCCAATTTGGGCCTGGACTGCCAA
CAAATGCCCAAGGGCCCCAAGGCCTTAACTGGGAATAAAACACGGGTAAGGCGGCATG
TTGCAAAAATTCGCGGGGAAACTCAAGAAAGGCCTCGGGCCCCAAACCTGTGCCAATTA
GGGGCCCCCTTATGGAGCTATACAAAATTTGACGGTCACTAAAACTTTGTTAAAGAACC
TCCCGGCACCCACCCCATTTGGGCACGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_000852

Insert Size:

870 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_000852.2](#), [NP_000843.1](#)

RefSeq Size:	737 bp
RefSeq ORF:	633 bp
Locus ID:	2950
UniProt ID:	P09211 , V9HWE9
Domains:	GST_N, GST_C
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450, Pathways in cancer, Prostate cancer
Gene Summary:	Glutathione S-transferases (GSTs) are a family of enzymes that play an important role in detoxification by catalyzing the conjugation of many hydrophobic and electrophilic compounds with reduced glutathione. Based on their biochemical, immunologic, and structural properties, the soluble GSTs are categorized into 4 main classes: alpha, mu, pi, and theta. This GST family member is a polymorphic gene encoding active, functionally different GSTP1 variant proteins that are thought to function in xenobiotic metabolism and play a role in susceptibility to cancer, and other diseases. [provided by RefSeq, Jul 2008]