

Product datasheet for **SC111111**

glutathione S transferase Omega 1 (GSTO1) (NM_004832) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	glutathione S transferase Omega 1 (GSTO1) (NM_004832) Human Untagged Clone
Tag:	Tag Free
Symbol:	glutathione S transferase Omega 1
Synonyms:	GSTO 1-1; GSTTLp28; HEL-S-21; P28; SPG-R
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111111 sequence for NM_004832 edited (data generated by NextGen Sequencing) ATGTCCGGGGAGTCAGCCAGGAGCTTGGGGAAGGGAAGCGGCCCCCGGGCCGGTCCCG GAGGGCTCGATCCGCATCTACAGCATGAGGTTCTGCCCGTTTGCTGAGAGGACGCGTCTA GTCCTGAAGGCCAAGGGAATCAGGCATGAAGTCATCAATATCAACCTGAAAAATAAGCCT GAGTGGTTCTTTAAGAAAAATCCCTTTGGTCTGGTGCCAGTTCTGGAAAACAGTCAGGGT CAGCTGATCTACGAGTCTGCCATCACCTGTGAGTACCTGGATGAAGCATACCCAGGGAAG AAGCTGTTGCCGGATGACCCCTATGAGAAAGCTTGCCAGAAGATGATCTTAGAGTTGTTT TCTAAGGTGCCATCCTTGGTAGGAAGCTTTATTAGAAGCCAAAAATAAGAAGACTATGAT GGCCTAAAAGAAGAATTTTCGTAAGAATTTACCAAGCTAGAGGAGTTCTGACTAATAAG AAGACGACCTTTTGGTGGCAATTCTATCTCTATGATTGATTACCTCATCTGGCCCTGG TTTGAACGGCTGGAAGCAATGAAGTTAAATGAGTGTGTAGACCACACTCCAAAAGTAAA CTGTGGATGGCAGCCATGAAGGAAGATCCACAGTCTCAGCCCTGCTTACTAGTGAGAAA GACTGGCAAGGTTTCCTAGAGCTCTACTTACAGAACAGCCCTGAGGCCTGTGACTATGGG CTCTGA Clone variation with respect to NM_004832.2 419 c=>a



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004832 unedited
 GGTGAAATTTGTATACGACTCCTTATAGGCGGCCGNAATTCGCACGAGGCTGCGCTG
 CGCCACGATGTCCGGGAGTCAGCCAGGAGCTTGGGGAAGGGAAGCGGCCCCCGGGGCC
 GGTCCCGAGGGCTCGATCCGCATCTACAGCATGAGGTTCTGCCCGTTTGTCTGAGAGGAC
 GCGTCTAGTCTGAAGGCCAAGGGAATCAGGCATGAAGTCATCAATATCAACCTGAAAAA
 TAAGCTGAGTGGTTCTTTAAGAAAAATCCCTTTGGTCTGGTGCCAGTTCTGGAAAAACAG
 TCAGGGTCAGCTGATCTACGAGTCTGCCATCACCTGTGAGTACCTGGATGAAGCATACCC
 AGGGAAGAAGCTGTTGCCGGATGACCCCTATGAGAAAGCTTGCCAGAAGATGATCTTAGA
 GTTGTCTTCTAAGGTGCCATCCTTGGTAGGAAGCTTTATTAGAAGCCAAAATAAAGAAGA
 CTATGATGGCCTAAAAGAAGAATTCGTAAGAATTTACCAAGCTAGAGGAGTTCTGAC
 TAATAAGAAGACGACCTTCTTTGGTGGCAATTCTATCTCTATGATTGATTACCTCATCTG
 GCCCTGGTTTGAACGGCTGGAAGCAATGAAGTTAAATGAGTGTGTAGACCACACTCCAAA
 ACTGAACTGTGGATGGCAGCCATGAAGGAAGATCCCACAGTCTCAGCCCTGCTTACTAG
 TGAGAAAGACTGGCAAGGTTTCTAGAGCTCTACTTACAGAACAGCCCTTGAGCCTGTGA
 CTATGGGCTCTGAAGGGGCGAGGAGTCAGCAATAAAGCTATGTCTGATATTTTCCCTCAC
 TTAATAAAAAAAAAAAAACTCGACTCTAGATGCGGCCGCGTCATAGCTGTTCTGAAACAGA
 TCCCGGTGGCATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004832 unedited
 GGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAGTGAAGGAAAATTCAGACAT
 AGCTTTATTGCTGACTCCTGCCCTTCAGAGCCCATAGTCACAGGCCTCAGGGCTGTTT
 TGTAAGTAGAGCTCTAGAAAACCTTGCCAGTCTTCTCACTAGTAAGCAGGGCTGAGACT
 GTGGGATCTTCTTCATGGCTGCCATCCACAGTTTCAGTTTTGGAGTGTGGTCTACACAC
 TCAATTAACCTTATTGCTTCCAGCCGTTCAAACAGGGCCAGATGAGGTAATCAATCATA
 GAGATAGAATTGCCACCAAGAAGGTCGTCTTCTTATTAGTCAGAACCTCCTCTAGCTTG
 GTAATTTCTTTACGAAATTTCTTTTAAAGCCATCATAGTCTTCTTTATTTTGGCTTCTA
 ATAAAGCTTCTACCAAGGATGGCACCTTAGAAAACAACTCTAAGATCATCTTCTGGCAA
 GCTTTCTCATAGGGGTCATCCGGCAACAGCTTCTTCCCTGGGTATGCTTCATCCAGGTAC
 TCACAGGTGATGGCAGACTCGTAGATCAGCTGACCCTGACTGTTTTCCAGAACTGGCACC
 AGACCAAAGGGATTTTTCTTAAAGAACCACTCAAGCTTATCTTTCAGTTGATATTGATG
 ACTTCATGCCTGATTCCCTTGGCCTTTCAGGACTAGACGCGTCTCTCAGCANACGGGCGAG
 AACCTCATGCTGTAGATGCCGATCGAGCCCTCCGGGACCGGCCCGGGGGCGCGCTTC
 CCTTCCCCAAGCTCCTGGCTGACTCCCCGACATCGTGGCGCACCGCAGCCTCGTGCCGA
 TTCGCGGCCGCCCTATATGAGTCGGATAACAAATTCTGACGGTCACTAACGAGCTCTGCT
 TATTAGGACCTCCACCGACCCCTACCGNCCATGGGGTAACGGGGCGGGTTATACCAAT
 TTTGGAAGTCCCTGATTTGGGCG

Restriction Sites:

NotI-NotI

ACCN:

NM_004832

Insert Size:

860 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_004832.1 , NP_004823.1
RefSeq Size:	793 bp
RefSeq ORF:	726 bp
Locus ID:	9446
UniProt ID:	P78417
Cytogenetics:	10q25.1
Domains:	GST_N, GST_C
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
Gene Summary:	<p>The protein encoded by this gene is an omega class glutathione S-transferase (GST) with glutathione-dependent thiol transferase and dehydroascorbate reductase activities. GSTs are involved in the metabolism of xenobiotics and carcinogens. The encoded protein acts as a homodimer and is found in the cytoplasm. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>