

Product datasheet for **SC334638**

Glutathione S Transferase theta 2 (GSTT2) (NM_001302670) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glutathione S Transferase theta 2 (GSTT2) (NM_001302670) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSTT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001302670, the custom clone sequence may differ by one or more nucleotides

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ATGGGCCTAGAGCTGTTTCTTGACCTGGTGTCCCAGCCCAGCCGCGCCGTCTACATCTTCGCCAAGAAGA  
ATGGCATCCCCTTAGAGCTGCGCACCGTGGATTTGGTCAAAGGGCAGCACAAAGAGCAAGGAGTTCTTGCA  
GATCAACAGCCTGGGAAACTGCCGACGCTCAAGGATGGTGATTTTCATCTTGACCGAAAGCTCGGCCATC  
CTGATTTACCTGAGCTGTAAGTACCAGACGCCGGACCACTGGTATCCATCTGACCTGCAGGCTCGTGCCC  
GTGTTTCATGAGTACCTGGGCTGGCATGCCGACTGCATCCGTGGCACCTTTGGTATACCCCTGTGGGTCCA  
GGTGTGGGGCCACTCATTGGGGTCCAGGTGCCAAGGAGAAGGTGGAACGCAACAGGACTGCCATGGAC  
CAGGCCCTGCAATGGCTGGAGGACAAGTTCCTGGGGGACAGGCCCTTCTCGCTGGCCAGCAGCCGGTGG  
CTCTCGGCTATGAACTGTTTGGAGGACGGCCACGACTGGCAGCATGGCGTGGACGAGTGGAGGCTTTCCT  
GGGTGCTGAGCTATGCCAGGAGGCCACAGCATCATCTTGAGCATCCTGGAACAGGCGGCCAAGAAAACC  
CTCCCAACACCCTCACCAGAGGCCTATCAGGCTATGCTGCTTCGAATCGCCAGGATCCCCTGA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001302670
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).



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Reconstitution Method:

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_001302670.1](#), [NP_001289599.1](#)

RefSeq Size: 1189 bp

RefSeq ORF: 693 bp

Locus ID: 2953

Cytogenetics: 22q11.23

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 (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in an isoform (b) that is shorter than isoform a. This variant represents the ALT_REF_LOCI_1 alternate haplotype in the GRCh38 reference genome assembly.