

Product datasheet for **RG236718**

Glutathione S Transferase theta 1 (GSTT1) (NM_001293807) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Glutathione S Transferase theta 1 (GSTT1) (NM_001293807) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GSTT1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236718 representing NM_001293807.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCCTGGAGCTGTACCTGGACCTGTGTCCCAGCCCTGCCGCGCTGTTTACATCTTTGCCAAGAAG
AACGACATTCCCTTCGAGCTGCGCATCGTGGATCTGATTAAGACGGAGTCTCGCTCTGTGCCAGGC
TGGAGTGCAGTGGCAGGATCACAGCTCACTGCAACCTCTGCCGCCGAAACCTTGTCTCTGCCTCTTG
TTCCTGCTGGGGAGGTGAGCACTTAAGCGATGCCTTTGCCAGGTGAACCCCTCAAGAAGTGCCAGC
CTTGAAGGACGGGACTTCACCTTGACGGAGAGGTGATGTTCCCTGTTTTCTGGGTGAGCCAGTATCT
CCCCAGACTGGCAGCCACCCTGGCAGAGTTGGATGTGACCCCTGCAGTTGCTCGAGGACAAGTTCCTC
CAGAACAAGGCCTTCTTACTGGTCCTCACATCTCCTTAGCTGACCTCGTAGCCATCAGGAGCTGATG
CATCCCGTGGGTGCTGGCTGCCAAGTCTTGAAGGCCGACCCAAGCTGGCCACATGGCGGAGCGCGTG
GAGGCAGCAGTGGGGGAGGACCTCTCCAGGAGGCCCATGAGGTCATTCTGAAGGCCAAGGACTTCCCA
CCTGCAGACCCACCATAAAGCAGAAGCTGATGCCCTGGGTGCTGGCCATGATCCGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236718
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MGLELYDLLSQPCRAVYIFAKKNDIPFELRIVDLIKDGVSLCRPGWSAVAGSQLTATSAARNLVLCLL
FLLGRSALKRCLCPGEPPEQEGASLEGRGLHLDGEVMFPVFLGEPVSPQTLAATLAELDVTLLQLEDKFL
QNKAFLTGPHISLADLVAITELMHPVAGCQVFEGRPKLATWRQRVEAAVGEDLFQEAHEVILKAKDFP
PADPTIKQKLMPPWVLMIR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERY
```



[View online >](#)

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).
RefSeq:	NM_001293807.1 , NP_001280736.1
RefSeq Size:	1067 bp
RefSeq ORF:	681 bp
Locus ID:	2952
UniProt ID:	P30711
Cytogenetics:	22q11.23
Protein Pathways:	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
MW:	25.2 kDa
Gene Summary:	The protein encoded by this gene, glutathione S-transferase (GST) theta 1 (GSTT1), 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. GSTT1 and GSTT2/GSTT2B share 55% amino acid sequence identity and may play a role in human carcinogenesis. The GSTT1 gene is haplotype-specific and is absent from 38% of the population. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Sep 2015]