

## Product datasheet for **SC108767**

### GGT1 (NM\_013421) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GGT1 (NM_013421) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGT1
Synonyms:	CD224; D22S672; D22S732; GGT; GGT 1; GGTD; GTG
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_013421, the custom clone sequence may differ by one or more nucleotides

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ATGAAGAAGAAGTTAGTGGTGCTGGGCCTGCTGGCCGTGGTCTGGTGTGGTCATTGTGCGCCTCTGTC
TCTGGCTGCCCTCAGCCTCCAAGGAACCTGACAACCATGTGTACACCAGGGCTGCCGTGGCCGGGATGC
CAAGCAGTGTCTGAAGATTGGGAGGGATGCACTGCGGGACGGTGGCTCTGCGGTGGATGCAGCCATTGCA
GCCTGTGTGTGGGGCTCATGAATGCCACAGCATGGGCATCGGGGGTGGCCTCTTCTCACCATCT
ACAACAGCACCACACGAAAAGCTGAGGTCATCAACGCCCGCGAGGTGGCCCCAGGCTGGCCTTTGCCAC
CATGTTCAACAGCTCGGAGCAGTCCCAGAAGGGGGGGTGTGCGGTGGCGGTGCCTGGGGAGATCCGAGGC
TATGAGCTGGCACACCAGCGGCATGGGCGGCTGCCCTGGGCTCGCCTCTTCCAGCCCAGCATCCAGCTGG
CCC GCCAGGGCTTCCCCGTGGGCAAGGGCTTGGCGGCAGCCCTGGAAAACAAGCGGACCGTCATCGAGCA
GCAGCCTGTCTTGTGTGAGGTGTCTGCCGGGATAGAAAGGTGCTTCGGGAGGGGAGAGACTGACCCTG
CCGCAGCTGGCTGACACCTACGAGACGCTGGCCATCGAGGGTCCCAGGCCTTCTACAACGGCAGCCTCA
CGGCCAGATTGTGAAGGACATCCAGGCGGCCGGGGCATTGTGACAGCTGAGGACCTGAACAACCTACCG
TGCTGAGCTGATCGAGCACCCGCTGAACATCAGCCTGGGAGACGGGTGCTGTACATGCCAGTGGCCCG
CTCAGCGGGCCCGTGTGGCCCTCATCCTCAACATCCTCAAAGGGTACAACCTTCTCCCGGAGAGCGTGG
AGAGCCCCGAGCAGAAGGGCCTGACGTACCACCGCATCGTAGAGGCTTTCGGATTTGCCACGCAAGAG
GACCCTGCTTGGGGACCCCAAGTTTGTGGATGTGACTGAGGTGGTCCGCAACATGACCTCCGAGTTCTTC
GCTGCCAGCTCCGGGCCAGATCTCTGACGACACCACTACCCGATCTCCTACTACAAGCCCGAGTTCT
ACACGCCGGATGACGGGGGCACTGCTCACCTGTCTGTGTCGCGAGAGGACGGCAGTGTGTGTCCGCCAC
CAGCACCATCAACCTCTACTTTGGCTCCAAGTCCGCTCCCGGTGAGCGGGATCCTGTTCATAATGAA
ATGGAGACTTCAGCTCTCCAGCATCACCAAGGATTTGGGGTACCCCTCACCTGTTCAATAATGAA
AGCCAGGGAAGCAGCCGCTCTCGTCCATGTGCCGACGATCATGGTGGCCAGGACGGCCAGGTCGGAT
GGTGGTGGGAGCTGCTGGGGGCACACAGATCACACGGCCACTGCACTGGCCATCATCTACAACCTCTGG
TTCGGCTATGACGTGAAGCGGGCGTGGAGGAGCCCCGGCTGCACAACCAGCTTCTGCCAACGTACGGA
CAGTGGAGAGAAACATTGACCAGGCAGTACTGCAGCCCTGGAGACCCGGCACCATCACACCCAGATCGC
GTCCACCTTCATCGTGTGGTGAAGCCATCGTCCGCACGGCTGGTGGCTGGGCAGCTGCCTCGGACTCC
AGGAAAGCGGGGAGCCTGCCGGCTACTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_013421 unedited

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AGAAATTTGTAATACGAACCTCACTATAGGGCGGCCGGAATTCGCACGAGGCCCGGTGAG
AGCTTTAAGTGCAGCTCTGATGCCCCAGGGACCTCTCAGACCCCTGCCAGAGCAGG
CAGCCCGGGTGCAGCCAGAAGTGTCTTCTGAGGAAGAGGTGCTCTCTGGCCCCCA
CTGTCCCAGGCCTCAGCAGCAAGGCAAGTGTGAGGTGCTGCCGTATCCAGGCTGGACAGT
TCAGTGTATTTGCCTGAGGCCCCACAGCAGAGTTCAACTGGAGACAGAGAAACAGCTAGA
GGCAGAGGGAGGTAAACACGGAGTCCCCAGAAAGGTCTGGGCTGCGCGTCTCAGGTAA
CCTCCCTTGACCTTCAGGAGAACGAGAAGGCTGTCTGATCAGAGAGTCCCTGAAGAAGAT
TCTGTGGTACAGGCTTCAGCAGAGTGTGAGGGAGACCCGGTTATTTCTCAGTATTT
CCACCAAATCCTCTGTCTTTCGTGGCCAAACCCAGGCAAGGCTTGGGGCCCCCGTCT
GCTGCTGGACGCAGAGCCATGAAGAAGAAGTTAGTGGTGTGGCCTGCTGGCCGTGGTC
CTGGTGTGGTCATTGTGCGCCTCTGTCTCTGGCTGCCCTCAGCCTCCAAGGAACCTGAC
AACCATGTGTACACCAGGGCTGCCGTGGCCGGATGCCAAGCAGTGTCTGAAGATTGGG
AGGGATGCACTGCGGGACGGTGGCTCTGCGGTGGATGCAGCCATTGCAGCCCTGTTGTGT
GTGGGGCTCATGAATGCCACAGCATGGGCATCGGGGGTGGCCTTCTCCTCACATCTAC
AACAGCACACGAAAAGCTGAGTCAT
    
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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_013421 unedited</p> <pre>GCAATTTAGNATCGAGTTG AGGGGGGAAACAGGCCAAGGGAGGCCACCTGGAGCCTGGCACAGTGGCCTCATTTATTGG GCTGCTGCTGCTCACAAAGGAAACCGGTCCCCCAAAGTCCCCTTCTGGGCCTGGGA GTATTTTGTCCCTGGATTGCTTGTCAACCTTGTCTCCTGGAGCACTATTAGCCGGCAG GCTCCCCGCTTTTCTGGAGTCCGAGGGAGCTGCCAACCACCAACCGTCCGGACGATGG CTTGCAACCACAGCGATGAAAGGGGACCCCATCTGGGTGTGATGGGGCCGGTCTCCAAGG CTGGAGTCACTGCCTGGTCAATGGTTCTCTCCACTGTCGTGACGTTGGGCAAAAAGTGGT TGTGCAACCGGGCTTCTCCACGGGCCGCTTACGTTATATCCGAACCAAAAGTTGTAA TGATGGCAATGCAGTGGCCGTGGTGTCTGTGTGCCCCAGCAGCTCCCACCACCATT GGACCTGGCCGTCTGGCCACCATGATCGTTGGGCACATGGACCAGAGCGGCTGCTTCC CTGGCTGGATGAAATTGGGCAGTGAAGGGGTACCCCAAACCTCGTTGGAGATAGCTGG AAAACCTAAATTTCCATTTATTATTGACAAGATCCCGTGACCGGGAGCGGACCTTGG AGCCAAATANAAGTTGATGGGCGCTGTGGCGGACACAAGACTGTCGCTCTTTGGGACGAA AGAAAGGTGAACATTGCCCTTCTTCGGCGTGTAAAACTCGGCTTTGATAAGGAGATC GGCTGAATGGTGTTCCTCAAAAATTTCTGGCCCCGAGCTGGCCNCAATAATTCGGAGTCA TGTTCGGGACACACTCATCCATTCACAAAATGGGGTCCCAAGAGGGTCTTTTGGAGTT GGAAACCGAAACACCTTACATGGNGGTCTAAGGCCCTTGTGGGGTTTC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_013421
<b>Insert Size:</b>	2590 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_013421.1</a> , <a href="#">NP_038265.1</a>
<b>RefSeq Size:</b>	2621 bp
<b>RefSeq ORF:</b>	1710 bp
<b>Locus ID:</b>	2678
<b>UniProt ID:</b>	<a href="#">P19440</a>
<b>Cytogenetics:</b>	22q11.23
<b>Domains:</b>	G_glu_transpept

<b>Protein Families:</b>	Protease, Transmembrane
<b>Protein Pathways:</b>	Arachidonic acid metabolism, Cyanoamino acid metabolism, Glutathione metabolism, Metabolic pathways, Selenoamino acid metabolism, Taurine and hypotaurine metabolism
<b>Gene Summary:</b>	<p>The enzyme encoded by this gene is a type I gamma-glutamyltransferase that catalyzes the transfer of the glutamyl moiety of glutathione to a variety of amino acids and dipeptide acceptors. The enzyme is composed of a heavy chain and a light chain, which are derived from a single precursor protein. It is expressed in tissues involved in absorption and secretion and may contribute to the etiology of diabetes and other metabolic disorders. Multiple alternatively spliced variants have been identified. There are a number of related genes present on chromosomes 20 and 22, and putative pseudogenes for this gene on chromosomes 2, 13, and 22. [provided by RefSeq, Jan 2014]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 6. Variants 2, 3, and 6 encode the same protein.</p>