

## Product datasheet for **SC117572**

### GGT5 (NM\_004121) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GGT5 (NM_004121) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGT5
Synonyms:	GGL; GGT-REL; GGT 5; GGTLA1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC117572 sequence for NM\_004121 edited (data generated by NextGen Sequencing)

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ATGGCCCCGGGCTACGGGGCCACGGTCAGCCTAGTCTGCTGGGTCTGGGGCTGGCGCTG
GCTGTCTATTGTGCTGGCTGTGGTCTCTCTCGACACCAGGCCCATGTGGCCCCAGGCC
TTTGCCACCGCTGCTGTTGCCCGGACTCCAAGGTCTGCTCGGATATTGGACGAGCCATC
TCCAGCAGCAGGGCTCACCCGTGGATGCCACCATCGCGGCTCTGGTCTGCACCAGCGTC
GTCAACCCTCAGAGCATGGGCATGGGCGGAGGGGTCACTTACCACATCTACAATGTGACA
ACAGGGAAGGTGGAGGTCAATGCCCCGGGAGACGGTGCCGGCCAGCCACGCCCCGAGC
CTGCTGGACCAAGTGTGCACAGGCTCTGCCACTGGGCACAGGGGCCAGTGGATCGGGGTG
CCCCGGGAGCTCCGTGGCTATGCCGAGGCCACCGCCGCATGGCCGCTGCCCTGGGCG
CAGCTGTTCCAGCCACCATCGCGCTGCTCCGAGGGGGGCATGTGGTGGCCCTGTCTC
AGCCGTTTCTGCACAACAGCATCTGCGGCTTCTTGCAGGCGTCAACCCTGCGCCAG
CTTTCTTCAACGGGACAGAACCCTGAGGCTCAGGACCCACTCCCATGGCCTGCACTG
GCCACCACCTGGAGACCGTGGCCACAGAGGGCGTGGAGGTCTTCTACACGGGGAGGCTG
GGCCAGATGCTGGTGGAGACATTGCCAAGGAAGGGAGCCAGCTGACGCTGCAGGACCTG
GCCAAGTTCAGCCCGAGGTGGTGGATGCCCTGGAGGTGCCCTGGGGGACTATACCCTG
TACTACCACCCGCGCTGCAGGGGGTGCATTCTCAGCTTTATCCTCAACGTGTAAGA
GGGTTCAACTTCTCAACAGAGTCTATGGCCAGGCTGAAGGGAGGGTGAACGTGTACCAC
CACCTTGTAGAGACGCTCAAGTTTGCCAAGGGGCAGAGGTGGAGGCTGGGGGACCCTCGA
AGCCACCCGAAGCTCCAGAATGCCTCCCGGGACCTGCTGGGGGAGACCCTGGCCAGCTC
ATCCGCCAACAGATCGATGGCCGGGGGACCACCAGCTCAGCCACTACAGCTTGGCCGAG
GCCTGGGGCCACGGGACAGGCACGTCCCATGTGTCTGTGCTGGGGGAGGATGGCAGCGCC
GTGGCTGCCACCAGCACCATCAACACACCCTTTGGAGCGATGGTGTATTACACACGGACA
GGCATCATCCTCAACAACGAGCTCTGGACTTATGCGAGCGATGCCCCCGGGTTCCGGC
ACCACCCCTCACCTGTGAGTGGAGACAGGGTGGTGGAGCTCCCGGAAGGTGCTGGCC
CCAGTTCAGGCGAGCGTCCCCATCCTCCATGGTGCCTCCATCTTGATCAACAAAGCC
CAGGGGTGCAAGCTAGTATTGGCGGGGCTGGCGGGGAGCTCATCATCTCTGCTGTGGC
CAGGCCATCATGAGCAAGCTGTGGCTTGGCTTGGACCTGAGAGCGGCCATTGCAGCCCC
ATCCTGCATGTCAACAGCAAGGGCTGTGTGGAGTACGAGCCCACTTCCAGCCAGGAGGTG
CAGAGGGGACTCCAAGACCGTGGCCAGAACCAGACCCAGAGGCCCTTCTTCTGAACGTG
GTCCAGGCTGTGTCCAGGAGGGGGCTGTGTGTACGCCGTCTCGGACCTGAGGAAGAGT
GGGGAGGCCCGCAGGCTACTAA
    
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Clone variation with respect to NM\_004121.2

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_004121 unedited

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GTTCTTTCCCGCCCGTTGCCGCATTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA
AGCAGAGCTCATTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCC
GCGAATTCGCGACGAGGGGGAACCCGGGAATGGTGTGGAGGTTCCAGGGAGCCCTGCC
CTACCTGGCAACCGCAGTGCAGCAGGCACCAAGTTCTCCTGCACATTGCGACAGTGTGAC
CCTGGGCTCTGGCGGGCGGTAGGTGGGCTTTGGACCTACTAGCAGTGGGGAGTTAAC
ACAGCAGTGACTCCTTAGGCAAGGAAAACCTCCCTCAGACGCTTTGCTGCCTGGCCTC
CTGCCAGCAACAAGCAGGAGCTGAAAACCAGAAGTTGAGGCGTGAGTTGGCCACTCCGT
AGTGTGCACTTGGTGGGGCAGCAGCTCGCCACAGCTGCCAGCCATCTGTCCATTACCC
ATCTGTCCATCTGGCAGCCCGCTGTTCCAGACCTGTCTGTCTGTCCGCCATCTGTAAGCC
CATCTCTGTCCATTGTCTATCTGACCATCTTTCTTACTGTCTCTTTGTCTAGCTAT
CTGGCCTATCTGTGATCCATCTTCGTGTCTGTCTTCCAGCCCCACCTGTTGTCCATCT
GTCCAATTACCTGTGACTCTGTGCATCTTCTTGTCCATTCATCTGCCACCCATCCGTCC
CTCCGTGTGCCACCAGCCGNCCCTCTCCTCCTGGGCTGCAGAGCCATGGCCCCGGGCTAC
GGNGCCACGGTCAGCCTATCCTGCNTGGTCTGNNNGTGCAGCCTGCTGTCTATTGTGCTGC
CTGTGGTCTCTCTCGACACAGCCCCATGTGGCCCCAGNCTTGGCACGCTGTGTGC
CGCCGATCCAAGTCTGCTCGATTTTGGACGAGCCTCCTCCAC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004121 unedited NTGGGTTTACTATGNACGCGCCGATTCTANGATCGAGTTTTTTTTTTTTTTTTTTGTT TTTTTTTTTTTTTTTTTTTCACAGTCCGCCTCTTAATCTTGGACTGGAGGATATACAGA TCGAGAGGGTGGGAGAGTGGCCCCAGGCAAGAGGCCTGCGGAGGGATAGAGGGGCCGGTT CAGGACCACCAGGGGCTCTGGGAAAGGGGGTTAGGGATGAGGCTAACCTCTCATCTGCC CAGCTGGGCCCCGCCACCTTTCCACTCTCAGCTGGACTCCCCTGCCAGGGGTCCAGATC CTGCCAGAGTAGTTGGTCCCCCAGCCATGTCCGGCCTGGACACAGGACTCATGGGGGGGC CAGACTTTAGCTCTGGGCAAAGCAGTGTCTTAATAGCCTGGGGCCTCCCCACTTTCCTC AGGTCCGAGACGGGTACACACAGGCCCTCCTGGGACACAGCCTGGACCACGTTCCAGG AAGAAAGGCCTCTGGGTCTGGTTCTGGCCACGGTCTTGGAGTCCCCTCTGCACCTCTGT AATGCCAGCAATTTGGGAGGCTGAGGAAGGAGGATCACTTGAGGCCAGGAGTTTGAGACC AACCTGGGCAATGCAGCAAGATCCTGTTTCTGGCTGAAGTTGGGCTCGTACTCCACAAA CCCTTGCTGTTTACTGCAAGATGGGGGCTGGAATGGGCGCTTTAGGGCAAAGACAAACC CCAGTTTGCTTATGATGGCCCTGGGCCACCAAAAAAAAAAATAGCTCCCCCGCCCGCC AATCAATATCTTTACCCGGGGTTTTTTTTTAACAATGGAGGGCACCTGGAGGATGGGG AACCTTCCCTGGAATGGGGGGCCCCCTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004121
<b>Insert Size:</b>	3000 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>	<u>NM_004121.1, NP_004112.1</u>
<b>RefSeq Size:</b>	2414 bp
<b>RefSeq ORF:</b>	1761 bp
<b>Locus ID:</b>	2687
<b>UniProt ID:</b>	<u>P36269</u>
<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>This gene is a member of the gamma-glutamyl transpeptidase gene family, and some reports indicate that it is capable of cleaving the gamma-glutamyl moiety of glutathione. The protein encoded by this gene is synthesized as a single, catalytically-inactive polypeptide, that is processed post-transcriptionally to form a heavy and light subunit, with the catalytic activity contained within the small subunit. The encoded enzyme is able to convert leukotriene C4 to leukotriene D4, but appears to have distinct substrate specificity compared to gamma-glutamyl transpeptidase. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (2) is one amino acid shorter than isoform 1.</p>