

## Product datasheet for **SC316787**

### GGT5 (NM\_001099781) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GGT5 (NM_001099781) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGT5
Synonyms:	GGL; GGT-REL; GGT 5; GGTLA1
Vector:	<u>pCMV6 series</u>



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<b>Fully Sequenced ORF:</b>	<p>&gt;NCBI ORF sequence for NM_001099781, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGCCCCGGGCTACGGGGCCACGGTCAGCCTAGTCTGCTGGGTCTGGGGCTGGCGCTG GCTGTCTATTGTGCTGGCTGTGGTCTCTCTCGACACCAGGCCCATGTGGCCCCAGGCC TTTGCCACCGTGTGTTGCCCGGACTCCAAGGTCTGCTCGGATATTGGACGAGCCATC CTCCAGCAGCAGGGCTCACCCGTGGATGCCACCATCGCGGCTCTGGTCTGCACCAGCGTC GTCAACCCTCAGAGCATGGGCTGGGCGGAGGGTTCATTTACCATCTACAATGTGACA ACAGGGAAGTGGAGGTCAATGCCCGGAGACGGTGCCGGCCAGCCACGCCCCGAGC CTGCTGGACCAAGTGTGCACAGGCTCTGCCACTGGGCACAGGGGCCAGTGGATCGGGGTG CCCCGGGAGCTCCGTGGCTATGCCGAGGCCACCGCCGCATGGCCGCTGCCCTGGGCG CAGCTGTTCCAGCCCACCATCGCGCTGCTCCGAGGGGGGCATGTGGTGGCCCTGTCTC AGCCGTTTCTGCACAACAGCATCTGCGGCTTCTTGCAGGCGTCAACCCTGCGCCAG CTTTCTTCAACGGGACAGAACCCTGAGGCTCAGGACCCACTCCCATGGCCTGCACTG GCCACCACCTGGAGACCGTGGCCACAGAGGGCGTGGAGGTCTTCTACACGGGGAGGCTG GGCCAGATGCTGGTGGAGACATTGCCAAGGAAGGGAGCCAGCTGACGCTGCAGGACCTG GCCAAGTTCAGCCGAGGTGGTGGATGCCCTGGAGGTGCCCTGGGGGACTATACCCTG TACTACCACCCGCGCTGCAGGGGGTGCATTCTCAGCTTTATCCTCAACGTGTAAGA GGGTTCAACTTCTAACAGAGTCTATGGCCAGGCTGAAGGGAGGGTGAACGTGTACCAC CACCTTGTAGAGACGCTCAAGTTTGCCAAGGGGCAGAGGTGGAGGCTGGGGGACCCTCGA AGCCACCCGAAGTCCAGAATGCCTCCCGGGACCTGCTGGGGGAGACCCTGGCCAGCTC ATCCGCCAACAGATCGATGGCCGGGGGACCACCAGCTCAGCCACTACAGCTTGGCCGAG GCCTGGGGCCACGGGACAGGCACGTCCCATGTGTCTGTGCTGGGGGAGGATGGCAGCGCC TGGCTGCCACCAGCACCATCAACACACCCTTTGGAGCGATGGTGTATTACACCGGACA GGCATCATCCTCAACAACGAGCTCCTGGACTTATGCGAGCGATGCCCGGGGTTCCGGC ACCACCCCTCACCTGCAGTGAAGTGGAGACAGGGTGGGTGGAGCTCCCGAAGGTGCTGG CCCCAGTTCAGGCGAGCGTTCCTCCATCCTCCATGGTGCCTCCATCTTGATCAACAAA GCCAGGGGTCGAAGCTAGTGATTGGCGGGGCTGGCGGGGAGCTCATCATCTCTGCTGTG GCCAGGCCATCATGAGCAAGCTGTGGCTTGGCTTGGACTGAGAGCGGCCATTGCAGCC CCCATCTGCATGTCAACAGCAAGGGCTGTGTGGAGTACGAGCCCAACTCAGCCAGGAG GTGCAGAGGGGACTCCAAGACCGTGGCCAGAACCAGACCAGAGGCCCTTCTTCTGAAC GTGGTCCAGGCTGTGTCCAGGAGGGGCTGTGTGTACGCCGCTCTCGGACTGAGGAAG AGTGGGGAGGCCCGCAGGCTAC </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001099781
<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001099781.1</a> , <a href="#">NP_001093251.1</a>
<b>RefSeq Size:</b>	2500 bp
<b>RefSeq ORF:</b>	1764 bp
<b>Locus ID:</b>	2687
<b>UniProt ID:</b>	<a href="#">P36269</a>
<b>Cytogenetics:</b>	22q11.23
<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 (1) represents the longest transcript and encodes the longest isoform (1).</p>