

Product datasheet for **SC306589**

GGT6 (NM_153338) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGT6 (NM_153338) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306589 representing NM_153338. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCGGGCAGAAGAGCCCGTGGTCTATCAGAAGCTGCTGCCCTGGGAGCCAAGCTTGGAGTCGGAG
GAGGAAGTGGAGGAGGAGGAGACATCAGAGGCGCTGGTTCTAAACCCCGGAGGCCACCGACTCTTCC
AGGAACAAGGCTGGCGGGCTGCCCGAACCTGGGCCCGTGTAGTGGCAGCCCTGCTGCTGGCTGTT
GGCTGCTCCCTGGCTGTGAGGCAGCTCCAGAATCAGGGCAGGTCGACAGGAAGCTTGGGCTCTGTGGCC
CCTCCACCCGGCGGACACTCCACGGCCCTGGCGTATACCACCAGGTGCCATCATCAGCCCTGCAGGT
GCCATGTTTTGGGGCTCTCCACGATAGCTCCTCAGGCAATCCACGGCCCTGACATCAGGCCAGCA
CAGACCCCTGGCCCCGGCTGGGGCTGCCCGGGCTCTGCCACCCTGCACCTGCTGCATGCACGCTTC
GGCCGCTGCCCTGGCCACGCCTGCTAGTGGGCCCCACCACGCTGGCTCAGGAGGGCTTCTGTTGGAC
ACACCCCTGGCAAGGGCTCTGGTGGCTCGGGGCACAGAAGGCTCTGTCCACTACTTTGCCATGCTGAT
GGGACACCCCTGGGCGCTGGGGCCGAGCCACCAACCCACAACCTGGCAGCTGTGCTTCGACAGCGAGCC
CTCGCTCCACCTCAGACCTTGTGGGGATGCTCTACTGAGTCTACTGGCGGGAGACCTGGGGTGGAG
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TTCACCACCCAGTCCCTCAGCTGGCCAGAAGTCTGGCACTGTTGGAGGCAGCCCTGCCTCCGGG
GGCCCCATCCCTGACCCCTGCCACCGTTCCTGCAGACTGCTGTGAGCCCGAGAGCAGTGCCTGGCC
GCCGTGGACAGCAGCGGCTCTGTGCTCCTCTCACCTCCTCGCTCAACTGCTCCTTTGGCTCTGCACAC
CTGTCCCCAAGCACTGGGGTTCTGCTCAGCAACCTGGTGGCAAGTCTACCACTAGTGCCTGGCCCTGC
CCCCTCATCTCCGTGGCAGCCTGGATGACACAGAGGCTGATGTGTTGGGGCTTGTGGCTTACGGGACC
CCTGATGTGGCCAGGGCCATGACTCACACCCTACTCAGGCATCTGGCAGCAAGGCCCCCTACCCAGGCC
CAGCACCAGCATCAGGCTCAGCAAGAACCAACAGAGCATCCCAGCACTTGTGGCCAAGGGACCCTGCTC
CAGGTGGCAGCCACACAGAGCAGCCCATGTCTCCAGTGTCCCATGCCTGCTGCCCTTCCAGGGG
TTCTAA
ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
Plasmid Map:	□
ACCN:	NM_153338
Insert Size:	1386 bp
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).
OTI Annotation:	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.
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).
Reconstitution Method:	<ol style="list-style-type: none">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_153338.3
RefSeq Size:	2556 bp
RefSeq ORF:	1386 bp
Locus ID:	124975
UniProt ID:	Q6P531
Cytogenetics:	17p13.2
Protein Pathways:	Arachidonic acid metabolism, Cyanoamino acid metabolism, Glutathione metabolism, Metabolic pathways, Selenoamino acid metabolism, Taurine and hypotaurine metabolism
MW:	47.5 kDa
Gene Summary:	GGT6 belongs to the gamma-glutamyltransferase (GGT; EC 2.3.2.2) gene family. GGT is a membrane-bound extracellular enzyme that cleaves gamma-glutamyl peptide bonds in glutathione and other peptides and transfers the gamma-glutamyl moiety to acceptors. GGT is also key to glutathione homeostasis because it provides substrates for glutathione synthesis (Heisterkamp et al., 2008 [PubMed 18357469]).[supplied by OMIM, Oct 2008] Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 3. It encodes isoform b, which is shorter than isoform c.