

Product datasheet for **SC334393**

GGT6 (NM_001288703) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGT6 (NM_001288703) 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:	>NCBI ORF sequence for NM_001288703, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCGGGCAGAAGAGCCCGTGGTCTATCAGAAGCTGCTGCCCTGGGAGCCAAGCTTGGAGTCGGAGG
AGGAAGTGGAGGAGGAGGAGACATCAGAGGCGCTGGTTCTAAACCCCGGAGGCACCAGGACTCTCCAG
GAACAAGGCTGGCGGGCTGCCCGAACCTGGGCCCGTGTAGTGGCAGCCCTGCTGCTGGCTGTTGGC
TGCTCCCTGGCTGTGAGGCAGCTCCAGAATCAGGGCAGGTCGACAGGAAGCTTGGGCTCTGTGGCCCTC
CACCCGGCGGACACTCCCACGGCCCTGGCGTATACCACCACGGTGCCATCATCAGCCCTGCAGGCCGAGA
GCTGCTTGTGGCCGGGGCAACGTCGTGGATGCTGGAGTTGGAGCTGCATTGTGCCTGGCAGTGGTGCAT
CCTCATGCCACGGGGCTAGACTGCTGTGAGCCCGAGAGCAGTGCCTGGCCCGCTGGACAGCAGCGGC
TCTGTGCTCCTTCTCACCTCCTCGCTCAACTGCTCCTTTGGCTCTGCACACCTGTCCCAAGCACTGGGG
TTCTGCTCAGCAACCTGGTGCCAAGTCTACCACTAG
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001288703
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).
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).



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Reconstitution Method:

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_001288703.1](#), [NP_001275632.1](#)

RefSeq Size: 2062 bp

RefSeq ORF: 597 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

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 (4) uses an alternate in-frame splice site in the 5' coding region and another alternate splice site in the 3' coding region, the latter resulting in a frameshift and an early stop codon, compared to variant 3. It encodes isoform d, which is shorter and has a distinct C-terminus, compared to isoform c.