

## Product datasheet for **RG238580**

### GGT6 (NM\_001288702) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GGT6 (NM_001288702) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GGT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238580 representing NM_001288702. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGAGCGGGCAGAAGAGCCCGTGGTCTATCAGAAGCTGCTGCCCTGGGAGCCAAGCTTGGAGTCGGAG
GAGGAAGTGGAGGAGGAGGAGACATCAGAGGCGCTGGTTCTAAACCCCGGAGGCCACCGACTCTTCC
AGGAACAAGGCTGGCGGGCTGCCCGAACCTGGGCCCGTGTAGTGGCAGCCCTGCTGCTGGCTGTT
GGCTGCTCCCTGGCTGTGAGGCAGCTCCAGAATCAGGGCAGGTCGACAGGAAGCTTGGGCTCTGTGGCC
CCTCCACCCGGCGGACACTCCCACGGCCCTGGCGTATACCACCAGGTCGCATCATCAGCCAGTCAGCC
ACATGCTCCACCTAGGCCGAGAGCTGCTTGTGCCGGGGCAACGTCGTGGATGCTGGAGTTGGAGCT
GCATTGTGCCTGGCAGTGGTGATCCTCATGCCACGGGGCTAGGTGCCATGTTTTGGGGCTCTTCCAC
GATAGCTCCTCAGGCAATTCCACGGCCCTGACATCAGGCCAGCACAGACCCTGGCCCCGGCTGGGG
CTGCCCGCGGCTCTGCCACCCTGCACCTGCTGCATGCACGCTTCGGCCGCTGCCCTGGCCACGCCTG
CTAGTGGGCCACCACGCTGGCTCAGGAGGGCTTCTGGTGGACACACCCTGGCAAGGGCTCTGGTG
GCTCGGGGCACAGAAGGCTCTGTCCACTACTTGGCATGCTGATGGACACCCCTGGGCGCTGGGGCC
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CCGTTCTGCAGACTGCTGTGAGCCCCGAGAGCAGTGCCCTGGCCGCGTGGACAGCAGCGGCTCTGTG
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CTCAGCAACCTGGTGGCAAGTCTACCACTAGTGCCTGGGCTGCCCCCTCATCTCCGTGGCAGCCTG
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CACACCCTACTCAGGCATCTGGCAGCAAGGCCCTACCCAGGCCAGCACCAGCATCAGGGTCAGCAA
GAACCAACAGAGCATCCCAGCACTTGTGGCCAAGGGACCCCTGCTCCAGGTGGCAGCCACACAGAGCAC
GCCCATGTCTCCAGTGTCCCCATGCTGCTGCCCTTCCAGGGTTC
ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

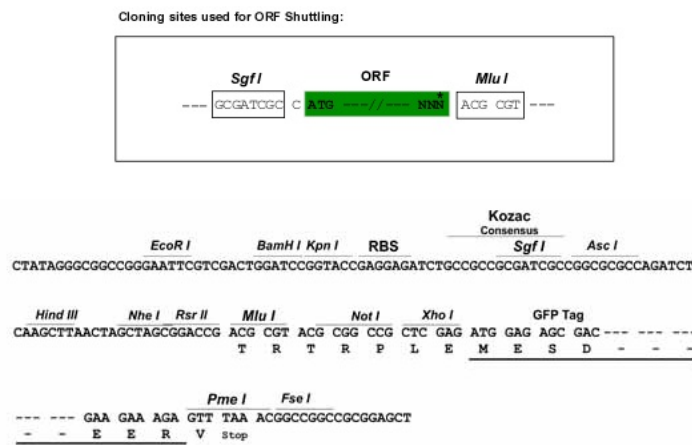


**Protein Sequence:** >Peptide sequence encoded by RG238580  
 Blue=ORF Red=Cloning site Green=Tag(s)

MERAEEPVVYQKLLPWEPSLESEEEVEEETSEALVLPNRRHQDSSRNKAGGLPGTWARVVAALLLAV  
 GCSLAVRQLQNQRSTGSLGSVAPPPGGHSHGPGVYHHGAIISPAATCSHLGRELLVAGGNVVDAGVGA  
 ALCLAVVHPHATGLGAMFWGLFHDSSSNSTAL TSGPAQTLAPGLGLPAALPTLHLLHARFGRLPWPRL  
 LVGPTTLAQEGFLVDTPALARALVARGTEGLCPLLCHADGTPLGAGARATNPQLAAVLRSAALAPTSDLA  
 GDALLSLLAGDLGVEVPSAVPRPTLEPAEQLPVQGILFTTSPSAGPELLALLEAALRSGAPIPDPCP  
 PFLQTAVSPESSALAAVDSSGSVLLLTSSLNCSFGSAHLSPSTGVLLSNLVAKSTTSAWACPLILRGS  
 DDTEADVLGLVASGTPDVARAMTHLLRHLAARPTQAQHGHQGGQEPTEHPSTCGQGTLQVAHAHTEH  
 AHVSSVPHACPFQGF  
 TRTRPLEMESDESLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001288702

**ORF Size:** 1497 bp

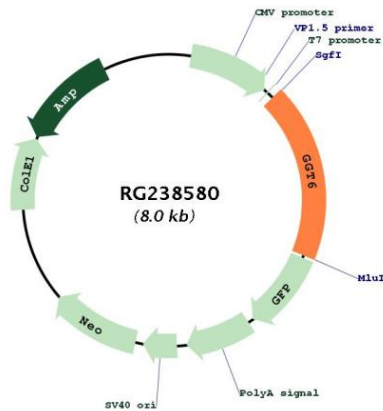
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

**RefSeq:** [NM\\_001288702.2](#)  
**RefSeq Size:** 2670 bp  
**RefSeq ORF:** 1500 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:** 51.6 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]

**Product images:**



Circular map for RG238580