

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)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGCGGGCAGAAGAGCCCGTGGTCTATCAGAAGCTGCTGCCCTGGGAGCCAAGCTTGGAGTCGGAG
GAGGAAGTGGAGGAGGAGGAGACATCAGAGGCGCTGGTTCTAAACCCCGGAGGCCACCGACTCTTCC
AGGAACAAGGCTGGCGGGCTGCCCGAACCTGGGCCCGTGTAGTGGCAGCCCTGCTGCTGGCTGGT
GGCTGCTCCCTGGCTGTGAGGCAGCTCCAGAATCAGGGCAGGTCGACAGGAAGCTTGGGCTCTGTGGCC
CCTCCACCCGGCGGACACTCCCACGGCCCTGGCGTATACCACCAGGTCGCATCATCAGCCAGTCAGCC
ACATGCTCCACCTAGGCCGAGAGCTGCTTGTGCCGGGGCAACGTCGTGGATGCTGGAGTTGGAGCT
GCATTGTGCCTGGCAGTGGTGATCCTCATGCCACGGGGCTAGGTGCCATGTTTTGGGGCTCTTCCAC
GATAGCTCCTCAGGCAATTCCACGGCCCTGACATCAGGCCAGCAGACCCCTGGCCCCGGCTGGGG
CTGCCCGGGCTCTGCCACCCTGCACCTGCTGCATGCACGCTTCGGCCGCTGCCCTGGCCACGCCTG
CTAGTGGGCCCCACCAGCTGGCTCAGGAGGGCTTCTGGTGGACACACCCTGGCAAGGGCTCTGGTG
GCTCGGGGCACAGAAGGCTCTGTCCACTACTTGGCATGCTGATGGGACACCCCTGGGCGCTGGGGCC
CGAGCCACCAACCACAACCTGGCAGCTGTGCTTCGCAGCGCAGCCCTCGCTCCACCTCAGACCTTGT
GGGATGCTCTACTGAGTCTACTGGCGGAGACCTGGGGTGGAGGTGCCCTCGGCTGTGCCAGGCC
ACTTTGGAACCAGCAGAGCAGCTACCTGTGCCAGGGCATCCTGTTACCACCCCAAGTCCCTCAGCT
GGCCCAGAACTGCTGGCACTGTTGGAGGACGCCCTGCGCTCCGGGGCGCCATCCCTGACCCCTGCCCA
CCGTTCTGCAGACTGCTGTGAGCCCCGAGAGCAGTGCCTGGCCGCGCTGGACAGCAGCGGCTCTGTG
CTCCTTCTCACCTCCTCGCTCAACTGCTCCTTTGGCTCTGCACACCTGTCCCAAGCACTGGGGTCTG
CTCAGCAACCTGGTGGCAAGTCTACCACTAGTGCCTGGGCTGCCCCCTCATCTCCGTGGCAGCCTG
GATGACACAGAGGCTGATGTGTTGGGGCTGTGGCTTCAGGGACCCCTGATGTGGCCAGGGCCATGACT
CACACCCTACTCAGGCATCTGGCAGCAAGGCCCTACCCAGGCCAGCACCAGCATCAGGGTCAGCAA
GAACCAACAGAGCATCCCAGCACTTGTGGCCAAGGGACCCCTGCTCCAGGTGGCAGCCACACAGAGCAC
GCCCATGTCTCCAGTGTCCCCATGCTGCTGCCCTTCCAGGGTTC
ACCGCTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



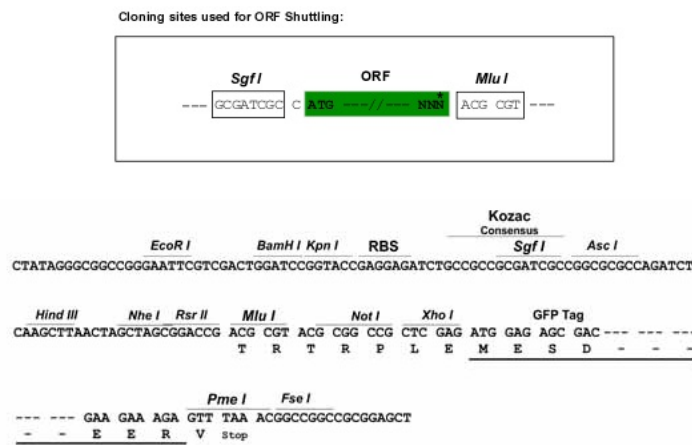
[View online »](#)

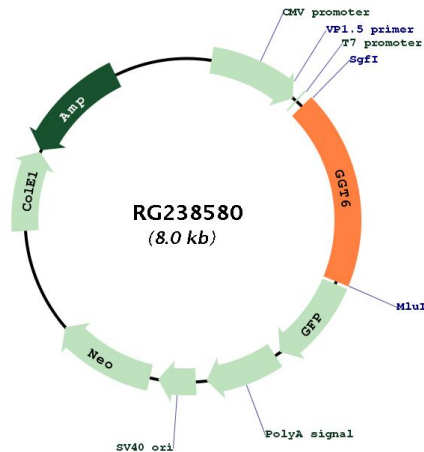
Protein Sequence: >Peptide sequence encoded by RG238580
 Blue=ORF Red=Cloning site Green=Tag(s)

MERAEEPVVYQKLLPWEPSLESEEEVEEETSEALVLNPRRHQDSSRNKAGGLPGTWARVVAALLLAV
 GCSLAVRQLQNQGRSTGSLGSVAPPPGGHSHGPGVYHHGAIISPAATCSHLGRELLVAGGNVVDAGVGA
 ALCLAVVHPHATGLGAMFWGLFHDSSNGNSTALTSGPAQTLAPGLGLPAALPTLHLLHARFGRLPWPRL
 LVGPTTLAQEGFLVDTPALARALVARGTEGLCPLLCHADGTPLGAGARATNPQLAAVLRSAALAPTSDLA
 GDALLSLLAGDLGVEVPSAVPRPTLEPAEQLPVQGILFTTPSPSAGPELLALLEAALRSGAPIPDPCP
 PFLQTAVSPESSALAAVDSSGSVLLLTSSLNCSFGSAHLSPSTGVLLSNLVAKSTTSAWACPLILRGS
 DDTEADVLGLVASGTPDVARAMTHLLRHLAARPTQAQHGHQGGQEPTEHPSTCGQGTLLQVAATEH
 AHVSSVPHACPFQGF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHGTYPSTYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:


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]