OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG225850

GGT6 (NM_001122890) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGT6 (NM_001122890) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GGT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG225850 representing NM_001122890
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGGGCAGAAGAGCCCGTGGTCTATCAGAAGCTGCTGCCCTGGGAGCCAAGCTTGGAGTCGGAGG
AGGAAGTGGAGGAGGAGGAGACATCAGAGGCGCTGGTTCTAAACCCCCGGAGGCACCAGGACTCTTCCAG
GAACAAGGCTGGCGGGCTGCCCGGAACCTGGGCCCGTGTAGTGGCAGCCCTGCTGCTGCTGGCTGTTGGC
TGCTCCCTGGCTGTGAGGCAGCTCCAGAATCAGGGCAGGTCGACAGGAAGCTTGGGCTCTGTGGCCCCTC
CACCCGGCGGACACTCCCACGGCCCTGGCGTATACCACCACGGTGCCATCATCAGCCCTGCAGGCCGAGA
GCTGCTTGTTGCCGGGGGCAACGTCGTGGATGCTGGAGTTGGAGCTGCATTGTGCCTGGCAGTGGTGCAT
CCTCATGCCACGGGGCTAGGTGCCATGTTTTGGGGCCTCTTCCACGATAGCTCCTCAGGCAATTCCACGG
CCCTGACATCAGGCCCAGCACAGACCCTGGCCCCCGGCCTGGGGCTGCCCGCGGCTCTGCCCACCCTGCA
CCTGCTGCATGCACGCTTCGGCCGCCTGCCCTGGCCACGCCTGCTAGTGGGCCCCACCACGCTGGCTCAG
GAGGGCTTCCTGGTGGACACACCCCTGGCAAGGGCTCTGGTGGCTCGGGGCACAGAAGGCCTCTGTCCAC
TACTTTGCCATGCTGATGGGACACCCCTGGGCGCTGGGGCCCGAGCCACCAACCCACAACTGGCAGCTGT
GCTTCGCAGCGCAGCCCTCGCTCCCACCTCAGACCTTGCTGGGGATGCTCTACTGAGTCTACTGGCGGGA
GACCTGGGGGTGGAGGTGCCCTCGGCTGTGCCCAGGCCCACTTTGGAACCAGCAGAGCAGCTACCTGTGC
CCCAGGGCATCCTGTTCACCACCCCCAGTCCCTCAGCTGGCCCAGAACTGCTGGCACTGTTGGAGGCAGC
CCTGCGCTCCGGGGCGCCCATCCCTGACCCCTGCCCACCGTTCCTGCAGACTGCTGTGAGCCCCGAGAGC
AGTGCCCTGGCCGCCGTGGACAGCAGCGGCTCTGTGCTCCTTCTCACCTCCTCGCTCAACTGCTCCTTTG
GCTCTGCACACCTGTCCCCAAGCACTGGGGTTCTGCTCAGCAACCTGGTGGCCAAGTCTACCACTAGTGC
CTGGGCCTGCCCCCTCATCCTCCGTGGCAGCCTGGATGACACAGAGGCTGATGTGTTGGGGCTTGTGGCT
TCAGGGACCCCTGATGTGGCCAGGGCCATGACTCACACCCTACTCAGGCATCTGGCAGCAAGGCCCCCTA
CCCAGGCCCAGCACCAGCATCAGGGTCAGCAAGAACCAACAGAGCATCCCAGCACTTGTGGCCAAGGGAC
CCTGCTCCAGGTGGCAGCCCACACAGAGCACGCCCATGTCTCCAGTGTCCCCCATGCCTGCTGCCCCTTC
CAGGGGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

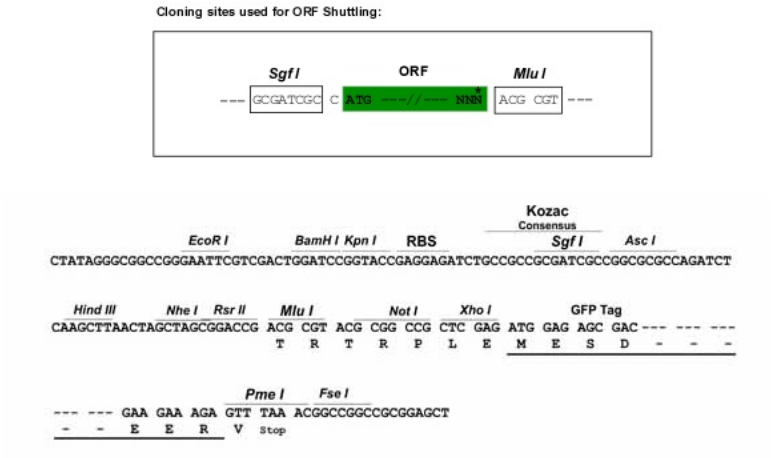
>RG225850 representing NM_001122890
Red=Cloning site Green=Tags(s)

MERAEEPVVYQKLLPWEPSLESEEEVEEEETSEALVLNPRRHQDSSRNKAGGLPGTWARVVAALLLLAVG
CSLAVRQLQNQGRSTGSLGSVAPPPGGHSHGPGVYHHGAIISPAGRELLVAGGNVVDAGVGAALCLAVVH
PHATGLGAMFWGLFHDSSSGNSTALTSGPAQTLAPGLGLPAALPTLHLLHARFGRLPWPRLLVGPTTLAQ
EGFLVDTPLARALVARGTEGLCPLLCHADGTPLGAGARATNPQLAAVLRSAALAPTSDLAGDALLSLLAG
DLGVEVPSAVPRPTLEPAEQLPVPQGILFTTPSPSAGPELLALLEAALRSGAPIPDPCPPFLQTAVSPES
SALAAVDSSGSVLLLTSSLNCSFGSAHLSPSTGVLLSNLVAKSTTSAWACPLILRGSLDDTEADVLGLVA
SGTPDVARAMTHTLLRHLAARPPTQAQHQHQGQQEPTEHPSTCGQGTLLQVAAHTEHAHVSSVPHACCPF
QGF

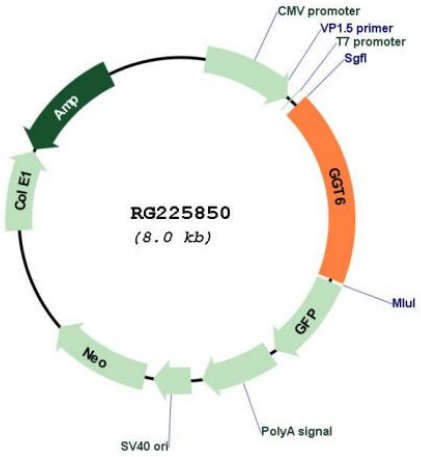
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001122890
ORF Size:	1479 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).

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_001122890.3
RefSeq Size:	2635 bp
RefSeq ORF:	1482 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]