

Product datasheet for **RG220619**

GGT7 (NM_178026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGT7 (NM_178026) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GGT7
Synonyms:	D20S101; GGT4; GGTL3; GGTL5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG220619 representing NM_178026
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCGCGGAGAACGAGGCCAGCCAGGAGAGCGCCCTGGGCGCCTACTCGCCAGTGGACTACATGAGCA
TCACCAGCTTCCCGCGGCTGCCCGAGGACGAGCCGGCGCCCGCGCCCGCTGAGGGGCCGAAGGACGA
GGACGCCTTTCTGGGAGACCCCGACACCCGACTCCTTCCTGAAGTCTGCACGGCTGCAGCGGCTG
CCATCGTCGTCGTCGGAGATGGGAGCCAAAGACGGGTCGCGCTACGCGAGACGCGCAAAGACCCGTTCT
CCGCCGACGCGCGGAGTCTCTGCCGCCAGGATGGGCTCACGGTCATCGTCACGGCTGTCTCACCTT
CGCTACCGGTGTACCGTGGCGCTGGTCATGCAGATCTACTTCGGGGACCCCGATCTCCAGCAGGGT
GCCGTGGTGACCGATGCTGCCCGTGCCTTCACTGGGCATCGAGGTGCTCAGTAAACAGGGATCTTCTG
TGGACGCAGCGGTGGCAGCAGCCTTGTGTTGGGTATCGTGGCTCCACACAGTTCTGGCCTGGGCGGTGG
GGCGGTGATGCTGGTACATGACATCCGACGAAATGAGAGCCACCTAATTGATTTCCGGGAGTCCGACCA
GGGGCCCTCAGGGAAGAGACCCTGCAAAGATCCTGGGAGACCAAGCCTGGGCTCTTGGTGGGGGTTCCCG
GAATGGTGAAGGGGCTACATGAAGCTCACAGCTCTATGGCAGGCTGCCATGGTCCCAAGTCTGGCCTT
TGCAGCAGCTGTGGCCAAAGATGGCTTCAACGTGACTCATGATCTAGCCCGTGGCCTGGTGAACAGCTG
CCACCCAAACATGTCGAGCGCTTCCGGGAGACGTTCTGCCATCGGGCCGCCCGCCACTACCTGGCTCGT
TGCTGCATCGGCCGACCTGGCTGAGGTGCTGGATGACTTGGCACCTCCGGCCCGGCTGCCTTCTACGC
AGGTGGCAACCTCACACTGGAGATGGTGGCCGAGGCTCAGCACGAGGGGGTGTACATAACCGAAGAGGAC
TTCAGCAATTACAGCGCCCTTGTGGAGAAGCCTGTGTGGCGTGTACAGAGGCCACCTGGTTCTTAGTC
CCCCACCTCCGCACAGGGCCCTGCCCTCATCAGTGTCTCAACATCCTGGAGGGCTTCAATCTCACCAG
CCTGGTATCCCGAGAACAGGCTTCTCACTGGGTGGCAGAGACCCTGAAGATTGCATTAGCCCTGGCCAGC
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CCGCTACCTCCGGGGCCATATCAATGACTCCCAGGCAGCCCTGCCCACTCCTGCCTGTCTATGAACT
AGACGGAGCTCCACGGCTGCCAGGTGCTGATCATGGGACCTGATGACTTCAATTGTGGCCATGGTTAGC
TCCCTGAACCAGCCCTTGGCAGCGCCTTATCACCCCTCGGGATCCTGCTCAACAGCCAGATGCTGG
ACTTCTCCTGGCCCAACCGGACAGCTAACCCTCTGCACCCAGCCTGGAGAATTCAGTGCAGCCAGGGAA
GCGGCCACTCTTTCTGCTGCCACAGTGGTCCGACCCGCGGAGGGGCTCTGTGGAACCTACCTCGCT
CTGGGGCCAATGGAGCTGCGCGGGCCCTCAGCGCCTGACACAGTTCTGCTGAATGCTCCTGACCTTGA
ACCGGAACTGAGTGACAGCCTGCCCGCGGCCCTACACCCGACCTGCAGTCCAACCTCCTGCAGGT
GGACAGTGAGTTCACAGAGGAAGAGATTGAGTTCCTGGAAGCCAGGGGTACCACGTGGAGAAAGTAGAT
GTCTTATCCTGGGTCCATGGCAGCCGAAGGACCAACTTATCATCGCTGTTAAGGACCTCGGAGCC
CAGATGCAGTGGAGCCACCATCCTG

ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220619 representing NM_178026
Red=Cloning site Green=Tags(s)

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MAAENEASQESALGAYSPVDYMSITSFPRLPEDEPAPAAPLRGRKDEDAFLGDPDTPDPSFLKSARLQRL
PSSSSEMGSDGSPLRETRKDPFSAAAAECSQRDGLTVIVTACLFATGVTVALVMQIYFGDPQIFQQG
AVVTDAARCTSLGIEVLKQGGSSVDAVAAALCLGIVAPHSSGLGGGVMLVHDIRRNESHLDIFRESAP
GALREETLQRSWETKPGLLVGVPGMVKGLHEAHQLYGRLPWSQVLAFAAAVAQDGFNVTHDLARALAEQL
PPNMSERFRETFLPGRPPPLPGSLLHRPDLAEVLDVLTSGPAAFYAGGNLTLEMVAEAQHAGGVI TEED
FSNYSALVEKPVCGVYRGLVLSPPPPHTGPALISALNILEGFNLTSLVSREQALHWVAETLKIALALAS
RLGDPVYDSTITESMDDMLSKVEAAYLRGHINDSQAAPAPLLPVYELDGAPTAQVLMGPDFFIVAMVS
SLNQPFSGSLITPSGILLNSQMLDFSWPNRTANHSAPLENSVQPGKRPLSFLLPVVRPAEGLCGTYLA
LGANGAARGLSGLTQVLLNVLTNRNLSDSLARGRLHPDLQSNLLQVDSEFTEEEIEFLEARGHHVEKVD
VLSWVHGSRRTNFIIVKDPSPDAAGATIL
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178026

ORF Size: 1986 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_178026.3](#)

RefSeq Size: 2640 bp

RefSeq ORF: 1989 bp

Locus ID: 2686

UniProt ID: [Q9UJ14](#)

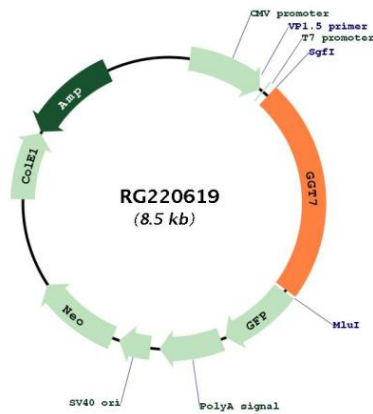
Cytogenetics: 20q11.22

Protein Families: Protease, Transmembrane

Protein Pathways: Arachidonic acid metabolism, Cyanoamino acid metabolism, Glutathione metabolism, Metabolic pathways, Selenoamino acid metabolism, Taurine and hypotaurine metabolism

Gene Summary: This gene is a member of a gene family that encodes enzymes involved in both the metabolism of glutathione and in the transpeptidation of amino acids. Changes in the activity of gamma-glutamyltransferase may signal preneoplastic or toxic conditions in the liver or kidney. The protein encoded by this gene consists of a heavy and a light chain, and it can interact with CT120, a plasma membrane-associated protein that is possibly involved in lung carcinogenesis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG220619