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 RC209946

GGT5 (NM_004121) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGT5 (NM_004121) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GGT5
Synonyms:	GGL; GGT-REL; GGT 5; GGTLA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC209946 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCGGGGCTACGGGGCCACGGTCAGCCTAGTCCTGCTGGGTCTGGGGCTGGCGCTGGCTGTCATTG
TGCTGGCTGTGGTCCTCTCTCGACACCAGGCCCCATGTGGCCCCCAGGCCTTTGCCCACGCTGCTGTTGC
CGCCGACTCCAAGGTCTGCTCGGATATTGGACGAGCCATCCTCCAGCAGCAGGGCTCACCCGTGGATGCC
ACCATCGCGGCTCTGGTCTGCACCAGCGTCGTCAACCCTCAGAGCATGGGCCTGGGCGGAGGGGTCATCT
TCACCATCTACAATGTGACAACAGGGAAGGTGGAGGTCATCAATGCCCGGGAGACGGTGCCGGCCAGCCA
CGCCCCGAGCCTGCTGGACCAGTGTGCACAGGCTCTGCCACTGGGCACAGGGGCCCAGTGGATCGGGGTG
CCCGGGGAGCTCCGTGGCTATGCCGAGGCCCACCGCCGCCATGGCCGCCTGCCCTGGGCGCAGCTGTTCC
AGCCCACCATCGCGCTGCTCCGAGGGGGGCATGTGGTGGCCCCTGTCCTCAGCCGTTTCCTGCACAACAG
CATCCTGCGGCCTTCCTTGCAGGCGTCAACCCTGCGCCAGCTCTTCTTCAACGGGACAGAACCCCTGAGG
CCTCAGGACCCACTCCCATGGCCTGCACTGGCCACCACCCTGGAGACCGTGGCCACAGAGGGCGTGGAGG
TCTTCTACACGGGGAGGCTGGGCCAGATGCTGGTGGAGGACATTGCCAAGGAAGGGAGCCAGCTGACGCT
GCAGGACCTGGCCAAGTTCCAGCCCGAGGTGGTGGATGCCCTGGAGGTGCCCCTGGGGGACTATACCCTG
TACTCACCACCGCCGCCTGCAGGGGGTGCCATTCTCAGCTTTATCCTCAACGTGCTAAGAGGGTTCAACT
TCTCAACAGAGTCTATGGCCAGGCCTGAAGGGAGGGTGAACGTGTACCACCACCTTGTAGAGACGCTCAA
GTTTGCCAAGGGGCAGAGGTGGAGGCTGGGGGACCCTCGAAGCCACCCGAAGCTCCAGAATGCCTCCCGG
GACCTGCTGGGGGAGACCCTGGCCCAGCTCATCCGCCAACAGATCGATGGCCGGGGGGACCACCAGCTCA
GCCACTACAGCTTGGCCGAGGCCTGGGGCCACGGGACAGGCACGTCCCATGTGTCTGTGCTGGGGGAGGA
TGGCAGCGCCGTGGCTGCCACCAGCACCATCAACACACCCTTTGGAGCGATGGTGTATTCACCACGGACA
GGCATCATCCTCAACAACGAGCTCCTGGACTTATGCGAGCGATGCCCCCGGGGTTCCGGCACCACCCCCT
CACCTGCAGTGAGTGGAGACAGGGTGGGTGGAGCTCCCGGAAGGTGCTGGCCCCCAGTTCCAGGCGAGCG
TTCCCCATCCTCCATGGTGCCCTCCATCTTGATCAACAAAGCCCAGGGGTCGAAGCTAGTGATTGGCGGG
GCTGGCGGGGAGCTCATCATCTCTGCTGTGGCCCAGGCCATCATGAGCAAGCTGTGGCTTGGCTTTGACC
TGAGAGCGGCCATTGCAGCCCCCATCCTGCATGTCAACAGCAAGGGCTGTGTGGAGTACGAGCCCAACTT
CAGCCAGGAGGTGCAGAGGGGACTCCAAGACCGTGGCCAGAACCAGACCCAGAGGCCCTTCTTCCTGAAC
GTGGTCCAGGCTGTGTCCCAGGAGGGGGCCTGTGTGTACGCCGTCTCGGACCTGAGGAAGAGTGGGGAGG
CCGCAGGCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209946 protein sequence
Red=Cloning site Green=Tags(s)

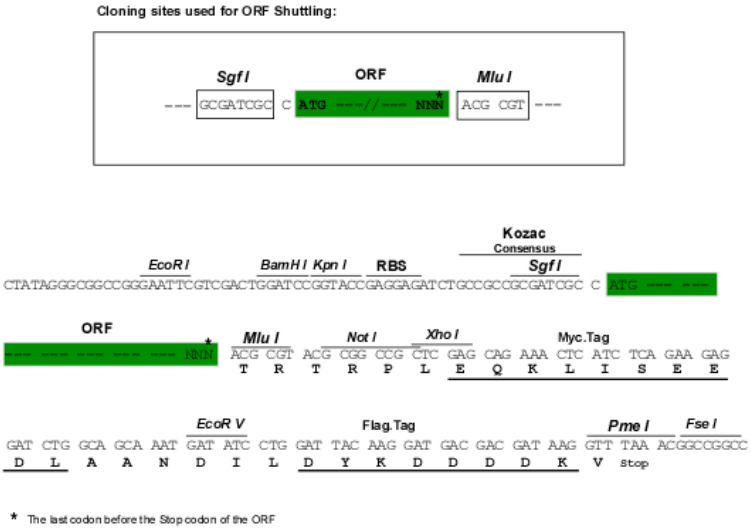
MARGYGATVSLVLLGLGLALAVIVLAVVLSRHQAPCGPQAFAHAAVAADSKVCSDIGRAILQQQGSPVDA
TIAALVCTSVVNPQSMGLGGGVIFTIYNVTTGKVEVINARETVPASHAPSLLDQCAQALPLGTGAQWIGV
PGELRGYAEAHRRHGRLPWAQLFQPTIALLRGGHVVAPVLSRFLHNSILRPSLQASTLRQLFFNGTEPLR
PQDPLPWPALATTLETVATEGVEVFYTGRLGQMLVEDIAKEGSQLTLQDLAKFQPEVVDALEVPLGDYTL
YSPPPPAGGAILSFILNVLRGFNFSTESMARPEGRVNVYHHLVETLKFAKGQRWRLGDPRSHPKLQNASR
DLLGETLAQLIRQQIDGRGDHQLSHYSLAEAWGHGTGTSHVSVLGEDGSAVAATSTINTPFGAMVYSPRT
GIILNNELLDLCERCPRGSGTTPSPAVSGDRVGGAPGRCWPPVPGERSPSSMVPSILINKAQGSKLVIGG
AGGELIISAVAQAIMSKLWLGFDLRAAIAAPILHVNSKGCVEYEPNFSQEVQRGLQDRGQNQTQRPFFLN
VVQAVSQEGACVYAVSDLRKSGEAAGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6821_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004121

ORF Size: 1761 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_004121.4

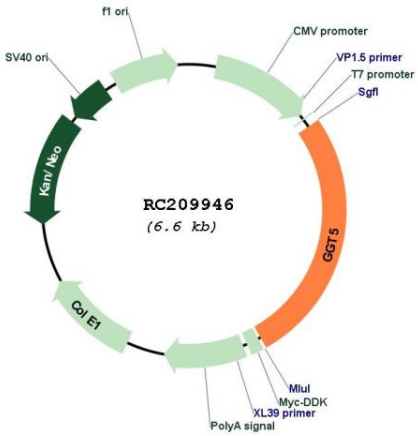
RefSeq Size: 2497 bp

RefSeq ORF: 1761 bp

Locus ID: 2687

UniProt ID:	P36269
Cytogenetics:	22q11.23
Domains:	G_glu_transpept
Protein Families:	Protease, Transmembrane
Protein Pathways:	Arachidonic acid metabolism, Cyanoamino acid metabolism, Glutathione metabolism, Metabolic pathways, Selenoamino acid metabolism, Taurine and hypotaurine metabolism
MW:	62.3 kDa
Gene Summary:	This gene is a member of the gamma-glutamyl transpeptidase gene family, and some reports indicate that it is capable of cleaving the gamma-glutamyl moiety of glutathione. The protein encoded by this gene is synthesized as a single, catalytically-inactive polypeptide, that is processed post-transcriptionally to form a heavy and light subunit, with the catalytic activity contained within the small subunit. The encoded enzyme is able to convert leukotriene C4 to leukotriene D4, but appears to have distinct substrate specificity compared to gamma-glutamyl transpeptidase. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RC209946