

Product datasheet for **MR222242**

Ggt5 (NM_011820) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ggt5 (NM_011820) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ggt5
Synonyms:	AI551243; GGL; GGT-REL; Ggtla1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222242 representing NM_011820
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTGGGGTACAGGGCCACGGTCTGCCTGGTCTGCTGGGTAGGTCTAGGTCTGGTTATCGTTG
 TGTTGGCTGCGGTCCTTTCTCCTCGTCAAGCCTCTTGTGGTCCCGGTGCCTTCACGCGTGTGCGGTAGC
 GGCTGACTCCAAGATCTGCTCGGATATTGGACGAGCCATCCTCCAGCAGCGGGGCTCACCTGTGGATGCC
 GCCATCGTGCCTGGTCTGACTGGTGTGTTAACCTCAGAGCATGGGTCTGGGCGGAGGGGTTGTCT
 TCACCATCTACAATGCATCAACAGGCAAGGTAGAGATCATCAATGCACGGGAGACAGTGCCAGCCAGCTA
 TGACCAAGGCCTGTTGAACCAAGTAAAAACGTCCTGCCATTGGGCACAGGGGCCAGTGGATCGGGGTT
 CCTGGGGAGTCCGCGGCTATGCTGAGGCCACCGCCACGGCCGCTGCCTTGGGCTCAGCTTTTCC
 AGCCACCATTGCACTGCTCCGAGAGGGTTTCCGTGTGCCCTTATCCTCAGCCAATTCTCAACAACAG
 CATCCTGCGGCCCACTTGAGTGCATCAACCCTGAGACAGCTCTTCTCAATGGGACAGAAACCTTGAGA
 TCTCAGGACCCATTCCCATGGCCTGCGCTGGCCAAACCCCTGGAGACTGTAGCCAAGGAGGGTCCGAGG
 TCTTATACACAGGGAGACTGGGCGCATGCTGGTGAAGACATTGCCAAGCAAGGAAGCCTGCTGACAGT
 TCAGGACTTGGCTGCCTCCAGCCTGAAGTGGTGAACCCCTGGAGATGCCCTAGGAACTATACCCCTG
 TACTCGCCGCGCCGCTGCAGGGGGCGCTATTCTTAGCTTCAATCTCAATGTGCTGAAAGGGTTCAACT
 TCTCTGCAGAGACGGTGGCGCGGCTGGAGGGGAAGTGAACATGTACCATCACCTGTAGAGACTCTCAA
 GTTCGCGTAGGGCAGAGGTGGCGGCTATGGGACCCTCCAGTCACCCGGGGATACAGAACATCTCCCGG
 GACCTCCTCCGGGAAGATCTAGCCAGCGCATCCGCCAGCAGATTGACGCGCGTGGTACCACCACCAGC
 TCAGCCATTACAACCTGACTGGGGTCAGGGGCAACCGGATGGGCACCTCTCATGTGCTGTTGGGAGA
 AGATGGCAGTGTGGCAGCCACCAGCACCATCAACACACCCTTTGGGCGATGGTGTACTCCCCACGG
 ACAGGCATCCTCCTGAACAACGAGCTTCTAGACTTATGCTGGAGACACATGCCAACATCCCGATACCC
 CTCCACCTGTTCCAGGTGAGCGGCCACCATCTCCATGTTACCTTCCATCTTGGTCAACAAGGCCAGGG
 ATCGAAGCTGGTATCGGTGGGCGAGGTGGAGAGCTGATCATCTGCGCTGGCCAGACTATCATGAAC
 AAGCTGTGGCTTGGCTTGGCTTACCTGACAGAAGCTATCGCATCTCCTATTCTACACGTCAACAGCAAGGGCC
 ATGTGGAGTATGAGCCAAATTAACCAGGAGGTACAGAAGGGGTACAGGACCGAGGCCAGATTACAG
 CCAGAGCCAGCGCCAGTTTCTGAATGCGGTCCAGGCTGTGTTTCAGGAAGGGCCCTGCGTCTATGCA
 GCGTCTGACCTGAGGAAGCTGAAAGGCTTCAGGATAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>MR222242 representing NM_011820
 Red=Cloning site Green=Tags(s)

MAWGHRAVCLVLLGVGLGLVIVVLA AVLSPRQASCPGAFTRA AVAADS KICSDIGRAILQQRGSPVDA
 AIAALVCTGVVNPQSMGLGGVVFTIYNASTGKVEIINARETVPAS YDQGLLNQCKNVLP LGTGAQWIGV
 PGE LRGYAE AHRRHGR LPWAQLFQPTIALLREGFRV PFI LSQFLNNSILRPHLSASTLRQLFFNGTETLR
 SQDPPFPALANTLETVAKEGAEVLYTGR LGRMLVEDIAKQGSLLTVQDLAAFQPEVVEPLEMPLGN YTL
 YSPPPPAGGAILSFILNV LKGFNFAETVARPGGEVNM YHHLVETLKFVAVQRWRLWDPSSHPGIQNISR
 DLLREDLAQRIRQQIDGRGDHHL SHYNLTGVRGNRMGTSHVSVLGEDGSAVAATSTINTPF GAMVYSPR
 TGILLNNE LLDLCWRHMPTSPITPPPVPGERPPSSM VPSILVNKGQGSKLVI GGAGGELIISAVAQTIMN
 KLWLGFDL TEAISPILHVNSKGHVEYEPKFNQEVQKGLQDRGQIQSQSRPVFLNAVQAVFQEGPCVYA
 ASDLRKAGKASGY

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9015_a09.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_011820

ORF Size: 1719 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_011820.5](#)

RefSeq Size: 4137 bp

RefSeq ORF: 1722 bp

Locus ID: 23887

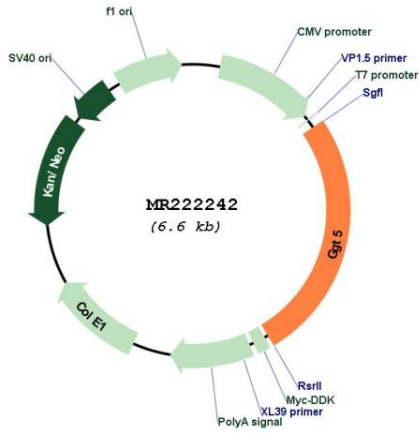
UniProt ID: [Q9Z2A9](#)

Cytogenetics: 10 C1

MW: 62.1 kDa

Gene Summary: Cleaves the gamma-glutamyl peptide bond of glutathione conjugates, but maybe not glutathione itself. Converts leukotriene C4 (LTC4) to leukotriene D4 (LTD4).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222242