

Product datasheet for **MG222242**

Ggt5 (NM_011820) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ggt5 (NM_011820) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ggt5
Synonyms:	AI551243; GGL; GGT-REL; Ggtla1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222242 representing NM_011820
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTGGGGTACAGGGCCACGGTCTGCCTGGTCTGCTGGGTAGGTCTAGGTCTGGTTATCGTTG
 TGTGGCTGCGGTCTTTCTCCTCGTCAAGCCTCTTGTGGTCCCGGTGCCTTACGCGTGTGCGGTAGC
 GGCTGACTCCAAGATCTGCTCGGATATTGGACGAGCCATCCTCCAGCAGCGGGGCTCACCTGTGGATGCC
 GCCATCGTGCCTGGTCTGACTGGTGTGTTAACCTCAGAGCATGGGTCTGGGCGGAGGGGTTGTCT
 TCACCATCTACAATGCATCAACAGGCAAGGTAGAGATCATCAATGCACGGGAGACAGTGCACGCCAGCTA
 TGACCAAGGCCTGTTGAACCAAGTAAAAACGTCCTGCCATTGGGCACAGGGGCCAGTGGATCGGGGTT
 CCTGGGGAGTCCGCGGCTATGCTGAGGCCACCGCCACGGCCGCTGCCTTGGGCTCAGCTTTTCC
 AGCCACCATTGCACTGCTCCGAGAGGGTTTCCGTGTGCCCTTATCCTCAGCCAATTCTCAACAACAG
 CATCCTGCGGCCCACTTGAGTGCATCAACCTGAGACAGCTCTTCTCAATGGGACAGAAACCTTGAGA
 TCTCAGGACCCATTCCCATGGCCTGCGCTGGCCAAACCCCTGGAGACTGTAGCCAAGGAGGGTGGGAGG
 TCTTATACACAGGGAGACTGGGCCGATGCTGGTGAAGACATTGCCAAGCAAGGAAGCCTGCTGACAGT
 TCAGGACTTGGCTGCCTCCAGCCTGAAGTGGTGAACCCCTGGAGATGCCCTAGGAACTATACCCCTG
 TACTCGCCGCGCCGCTGCAGGGGGCGCTATTCTTAGCTTCACTTCTCAATGTGCTGAAAGGGTTCAACT
 TCTCTGCAGAGACGGTGGCGCGGCTGGAGGGGAAGTGAACATGTACCATCACCTGTAGAGACTCTCAA
 GTTCGCGTAGGGCAGAGGTGGCGGCTATGGGACCCTCCAGTCACCCGGGGATACAGAACATCTCCCGG
 GACCTCCTCCGGGAAGATCTAGCCAGCGCATCCGCCAGCAGATTGACGCGCGTGGTACCACCACCAGC
 TCAGCCATTACAACCTGACTGGGGTCAAGGGCAACCGGATGGGCACCTCTCATGTGTGTTGGGAGA
 AGATGGCAGTGTGGCAGCCACCAGCACCATCAACACACCCTTGGGGCGATGGTGTACTCCCCACGG
 ACAGGCATCCTCCTGAACAACGAGCTTCTAGACTTATGCTGGAGACACATGCCAACATCCCCGATACCC
 CTCCACCTGTTCCAGGTGAGCGGCCACCATCTCCATGTTACCTTCCATCTTGGTCAACAAGGCCAGGG
 ATCGAAGCTGGTATCGGTGGGCGAGGTGGAGAGCTGATCATCTGCGCTGGCCGAGACTATCATGAAC
 AAGCTGTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCT
 ATGTGGAGTATGAGCCAAATTCACCAGGAGGTACAGAAGGGGTACAGGACCGAGGCCAGATTACAG
 CCAGAGCCAGCGCCAGTTTCTGAATGCGGTCCAGGCTGTGTTTCAGGAAGGGCCCTGCGTCTATGCA
 CGCTGACCTGAGGAAGGCTGAAAGGCTTCAGGATAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222242 representing NM_011820
 Red=Cloning site Green=Tags(s)

MAWGHRAIVCLVLLGVGLGLVIVVLAAVLSPRQASCPGAFTRAAVAADSKICSDIGRAILQQRGSFPVDA
 AIAALVCTGVVNPQSMGLGGGVFTIYNASTGKVEIINARETVPASDQGLLNQCKNVPLGTGAQWIGV
 PGELRGYAEARRHRGRLPWAQLFQPTIALLREGFRVFPILSQFLNNSILRPHLSASTLRQLFFNGTETLR
 SQDPPFPALANTLETVAKEGAEVLYTGRGRMLVEDIAKQGSLLTVQDLAAFQPEVVEPLEMPLGNYTL
 YSPPPPAGGAILSFILNVLKGFNFAETVARPGGEVNMYYHHLVETLKFVAVGQRWRLWDPSSHPGIQNISR
 DLLREDLAQRIRQQIDGRGDHHLQSHYNTLTVRGNRMGTSHVSVLGEDGSAVAATSTINTPFGAMVYSPR
 TGILLNELLDLRWRHMPTSPITPPVPGERPPSSMVPSILVKNKGQSKLVIGGAGGELIISAVAQTIMN
 KLWLGFDLTEAIAASPILHVNSKGHVEYEPKFNQEVQKGLQDRGQIQSQSRPVFLNAVQAVFQEGPCVYA
 ASDLRKAGKASGY

SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

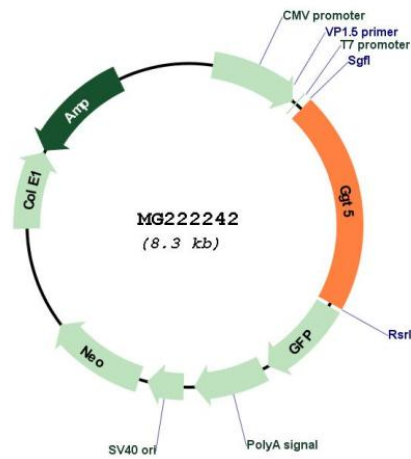
Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<ol style="list-style-type: none">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
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]