

Product datasheet for **MG220023**

Gbgt1 (NM_139197) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gbgt1 (NM_139197) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gbgt1
Synonyms:	Fgs; Fs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220023 representing NM_139197 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCGCCAAGACTGGCCAGGGCCTAGCGTTCTTCTGCTCGGTGGCACAGGTCTCTGGTCTGT
GGAAGTTTATCAAGGACTGGCTGCTGGTCTCTACATACCCTATTACCTCCCCTGCCAGAGTTCTTCAA
CATGAAGCTGCCCTTCAGGAAGGAGAAACCGTTGCAGCCTGTGACACAGTTACAGTACCCTCAGCCTAAG
CTGCTGGAACACGACCCACAGAGCTGCTGACACTTACCCCGTGGTTGGCACCCATCGTCTCCGAGGGAA
CCTTTGACCCGGAGCTTCTGAAGAGCATGTACCAGCCGTTGAACCTGACCATTGGCGTCACCGTGTGTC
CGTGGGGAAGTACACCTGCTTATTACAGCGCTTCTGGAGTCAAGAGTTCTTTATGCGTGGGTAC
CAAGTACACTATTACCTCTTTACCCATGATCCTACAGCCGTTCCAGAGTTCCCCTGGGCCCGGTCCGGC
TCCTCAGCATCATCCCTATCCAGGGTATTCCCGTGGGAGGAGATCTCCATGCGCCGAATGGAGACCAT
CAACAAACACATTGCCAAGAGAGCCACAAAGAAGTGGATTACCTCTTCTGTGTCGATGTGGATATGGTC
TTCCGTAACCCATGGGGCCCGAGACCTTGGGGGATCTAGTGGCTGCCATTACCCAGGCTATTTTGCTG
TACCTCGCGGAAATCCCTTATGAACGCAGGCAAGTTTCTCTGCTTTGTGGCAGACAATGAGGGGA
CTTCTATTATGGTGGGGCACTCTTTGGGGACGAGTGGCCAGAGTGTATGAGTTTACCCGGCCTGCCAC
ATGGCCATTCTGGCAGACAAAGCTAACAGCATTATGGCAGCCTGGCAGGAGGAGCCACCTGAACCGCC
ACTTCATCTGGCACAACCATCTAAGGTGCTGTCCCGAGAGTACCTCTGGGATGAAAGGAAGCCTCGGCC
CCGAAGCCTGAAGATGATTTCGATTCTCCTCAGTGAAAAAAGAAATGCCAACTGGCTGAGGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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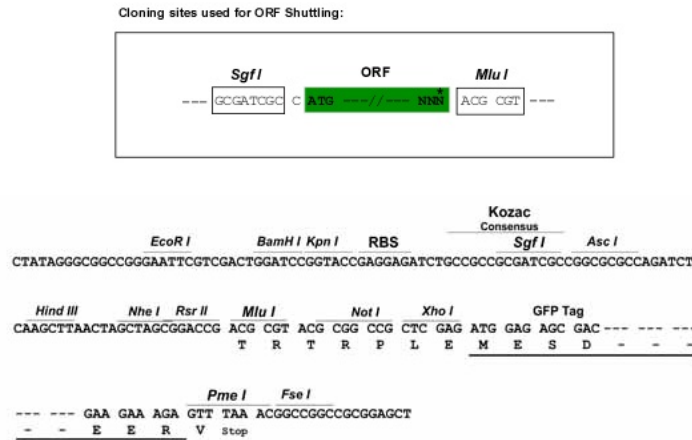
Protein Sequence: >MG220023 representing NM_139197
 Red=Cloning site Green=Tags(s)

MTRPRLAQGLAFFLLGGTGLWVLWKFIKDWLLVSYIPYYLPCPEFFNMKLPFRKEKPLQPVTQLQYPQPK
 LLEHGPTTELLTLTPWLAPIVSEGTDFPELLKSMYQPLNLTIGVTVFAVGKYTCFIQRFLSAEEFFMRGY
 QVHYLFTHDPTAVPRVPLGPRLLSIPIQGYSRWEEISMRRMETINKHIAKRAHKEVDYLFCDVDVDMV
 FRNPWGPETLGDLVAAIHPGYFAVPRRKFYERRQVSSAFVADNEGDFYGGALFGRVARVYEFTRACH
 MAILADKANSIMAAWQEESHNRHF IWHKPSKVL SPEYLWDERKPRRSLK MIRFSSVKKNANWLR T

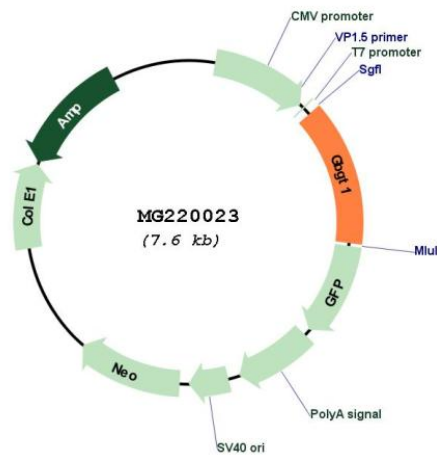
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_139197

ORF Size: 1041 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_139197.2 , NP_631936.2
RefSeq Size:	1335 bp
RefSeq ORF:	1044 bp
Locus ID:	227671
UniProt ID:	Q8VI38
Cytogenetics:	2 A3
Gene Summary:	Catalyzes the formation of Forssman glycolipid via the addition of N-acetylgalactosamine (GalNAc) in alpha-1,3-linkage to GalNAcb-1,3Gala-1,4Galb-1,4GlcCer (Gb4Cer). Forssman glycolipid (also called Forssman antigen; FG) probably serves for adherence of some pathogens. Conversely, it diminishes Shiga toxins susceptibility.[UniProtKB/Swiss-Prot Function]