

Product datasheet for **RG236598**

GBGT1 (NM_001288573) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBGT1 (NM_001288573) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GBGT1
Synonyms:	A3GALNT; FS; UNQ2513
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236598 representing NM_001288573. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGTGGGTACCGGGTGCCTACTACATCTTCACTGACAACCCCTGCAGCCGTTCCCGGGTCCCCTG
GGTCCCCACCGGCTTCTCAGCTCCATCCCCATCCAGGGTCACTCCCACTGGGAGGAGACATCCATGCGC
CGGATGGAGACCATCAGCCAGCACATTGCTAAGAGGGCTCACCGGAGGTGGACTACCTTCTGCCTT
GATGTGGACATGGTGTTCGGAACCCGTGGGGCCCTGAGACCTTGGGAGACCTGGTGGCTGCCATTAC
CCAAGCTACTACCGCTTCCCCGCCAGCAGTTCCTATGAGCGCAGGCGTGTTCCTACTGCCTTTGTG
GCAGACAGCGAAGGGGACTTCTATTATGGTGGGGCAGTCTTCGGGGGCGAGGTGGCCAGGGTATATGAG
TTTACTAGGGGCTGCCACATGGCCATCCTGGCGGACAAGGCCAATGGCATCATGGCTGCCTGGCGGGAG
GAAAGCCACCTGAACCGTCACTTCACTCAAACAAGCCGTCGAAGGTGCTGTCCCCGAGTACCTCTGG
GACGACAGGAAGCCCCAGCCACCCAGCCTGAAGCTGATCCGCTTTTCTACTGGACAAGGATATCAGC
TGCCTGAGGAGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236598
 Blue=ORF Red=Cloning site Green=Tag(s)

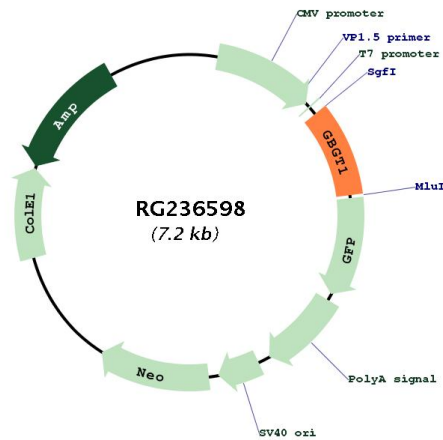
MRGYRVHYYIFTDNPAAVPGVPLGPHRLSSPIQGHSHWEETSMMRRETISQHIKRAHREVDYLFCL
 DVDMVFRNPWGPETLGDLVAAIHPSYYAVPRQQFPYERRRVSTAFVADSEGDFYGGAVFGGQVARVYE
 FTRGCHMAILADKANGIMAAWREESHNRHFISNKP SKVL SPEYLWDRKQP PPSLKLIRFSTLDKDIS
 CLRS
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288573

ORF Size:	633 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).
RefSeq:	NM_001288573.2
RefSeq Size:	2035 bp
RefSeq ORF:	636 bp
Locus ID:	26301
UniProt ID:	Q8N5D6
Cytogenetics:	9q34.2
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - globo series, Metabolic pathways
MW:	24.7 kDa
Gene Summary:	This gene encodes a glycosyltransferase that plays a role in the synthesis of Forssman glycolipid (FG), a member of the globoseries glycolipid family. Glycolipids such as FG form attachment sites for the binding of pathogens to cells; expression of this protein may determine host tropism to microorganisms. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]