

Product datasheet for **RG237302**

GBGT1 (NM_001288572) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBGT1 (NM_001288572) 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:	>RG237302 representing NM_001288572. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGAAGCTGCACTACAAGAGGGAGAAGCCACTCCAGCCCGTGGTATGGTCACAGTACCCTCAGCCCAAG
CTGCTGGAGCACAGGCCACACAGCTGCTGACACTCACACCCTGGTTGGCGCCCATCGTCTCCGAGGGA
ACCTTCAACCCAGAGCTTCTGCAGCACATCTACCAGCCACTGAACCTGACCATTGGGGTCACGGTGTTC
GCCGTGGGGAAGTACACTCATTTTCATCCAGTCCTTCTGGAGTCAGCCGAGGAGTTCTTCATGCGTGGG
TACCGGGTGCCTACTACATCTTACTGACAACCCTGCAGCCGTTCCCGGGTCCCCTGGTCCCAC
CGGCTTCTCAGCTCCATCCCATCCAGGGTCACTCCCCTGGGAGGAGACATCCATGCGCCGGATGGAG
ACCATCAGCCAGCACATTGCTAAGAGGGCTCACCAGGAGGTGGACTACCTCTTCTGCCTTGATGTGGAC
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TACGCCGTTCCCGCCAGCAGTCCCCTATGAGCGCAGGCGTGTTCCTACTGCCTTTGTGGCAGACAGC
GAAGGGGACTTCTATTATGGTGGGGCAGTCTTCGGGGGGCAGGTGGCCAGGGTATATGAGTTTACTAGG
GGCTGCCACATGGCCATCCTGGCGGACAAGGCCAATGGCATCATGGCTGCCTGGCGGGAGGAAAGCCAC
CTGAACCGTCACTTCATCTCAAACAAGCCGTCCAAGGTGCTGTCCCCGAGTACCTCTGGGACGACAGG
AAGCCCCAGCCACCCAGCCTGAAGCTGATCCGCTTTTCTACACTGGACAAGGATATCAGTGCCTGAGG
AGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237302
 Blue=ORF Red=Cloning site Green=Tag(s)

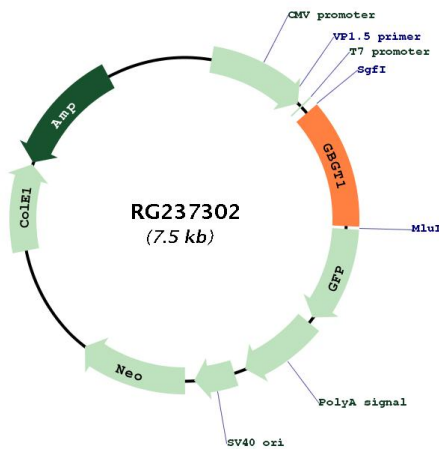
MKLHYKREKPLQPVVWSQYPQPKLLEHRPTQLLTLTPWLAPIVSEGTFNPELLQHIYQPLNLTIGVTVF
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 TISQHIAKRAHREVDYLFCLDVMVFRNPWGPETLGDVAIIHPSYYAVPRQQFPYERRRVSTAFVADS
 EGDFFYGGAVFGGQVARVVEYFTRGCHMAILADKANGIMAAWREESHNRHFI SNKPSKVL SPEYLWDDR
 KPQPPSLKLIRFSTLDDKDISCLRS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288572

ORF Size:	900 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_001288572.2
RefSeq Size:	2035 bp
RefSeq ORF:	903 bp
Locus ID:	26301
UniProt ID:	Q8N5D6
Cytogenetics:	9q34.2
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - globo series, Metabolic pathways
MW:	35.1 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]