

Product datasheet for **RC237302**

GBGT1 (NM_001288572) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GBGT1 (NM_001288572) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GBGT1
Synonyms: A3GALNT; FS; UNQ2513
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237302 representing NM_001288572
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGCTGCACTACAAGAGGGAGAAGCCACTCCAGCCCGTGGTATGGTCACAGTACCCTCAGCCCAAGC
TGCTGGAGCACAGGCCACACAGCTGCTGACACTCACACCCTGGTTGGCGCCATCGTCTCCGAGGGAAC
CTTCAACCCAGAGCTTCTGCAGCACATCTACCAGCCACTGAACCTGACCATTGGGGTACGGTGTGGTACC
GTGGGGAAGTACACTCATTTCATCCAGTCTTCTGGAGTCAGCCGAGGAGTTCTTCATGCGTGGGTACC
GGGTGCACTACTACATCTTCACTGACAACCTGCAGCCGTTCCCGGGTCCCGCTGGGTCCCAACCGCT
TCTCAGCTCCATCCCATCCAGGGTCACTCCCACTGGGAGGAGACATCCATGCGCCGGATGGAGACCATC
AGCCAGCACATTGCTAAGAGGGCTCACCGGGAGGTGGACTACCTCTTCTGCCTTGATGTGGACATGGTGT
TTCGGAACCCGTGGGCCCTGAGACCTGGGAGACCTGGTGGTGCATTACCCAAGCTACTACGCCGT
TCCCGCCAGCAGTTCCTATGAGCGCAGGCGTGTTCCTGCTGCTTTGTGGCAGACAGCGAAGGGGAC
TTCTATTATGGTGGGCGAGTCTTCGGGGGCGAGGTGGCCAGGGTATATGAGTTTACTAGGGGTGCCACA
TGGCCATCTGGCGGACAAGCCAATGGCATCATGGCTGCCTGGCGGGAGGAAAGCCACCTGAACCGTCA
CTTCATCTCAAACAAGCCGTCCAAGGTGCTGTCCCGGAGTACCTCTGGGACGACAGGAAGCCCAAGCCA
CCAGCCTGAAGCTGATCCGCTTTTCTACACTGGACAAGGATATCAGCTGCCTGAGGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237302 representing NM_001288572
 Red=Cloning site Green=Tags(s)

MKLHYKREKPLQPVVWSQYPQPKLLEHRPTQLLTLTPWLAPIVSEGTFNPELLQHIIYQPLNLTIGVTVFA
 VGKYTHFIQSFLSAEEFFMRGYRVHYYIFTDNPAAVPGVPLGPHRLSSIIPIQGHSHWEETSMRRMETI
 SQHIakraHREVDYLFCLDVMVFRNPWGPETLGDLVAAIHPSYAVPRQQFPYERRRVSTAFVADSEGD
 FYYGGAVFGGQVARVYEFTRGCHMAILADKANGIMAAREESHILNRHFISNKPSKVLSP EYLWDDRKPQP
 PSLKLI R FSTLDKDISCLRS

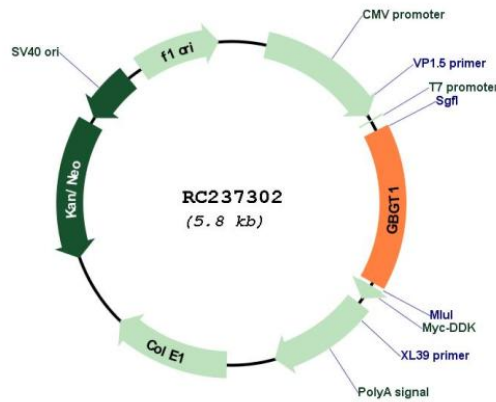
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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).
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_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]