

Product datasheet for **RC207424**

GBGT1 (NM_021996) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GBGT1 (NM_021996) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GBGT1
Synonyms: A3GALNT; FS; UNQ2513
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207424 representing NM_021996
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCATCGCCGGAGACTGGCCCTGGGTCTGGGTTCTGCCTGTTGGCGGGCACAAGCTTCAGTGTCTGT
 GGGTGTATCTTGAGAACTGGCTGCCAGTCTCCTATGTCCCCTATTATCTCCCCTGCCAGAGATCTTCAA
 CATGAAGCTGCACTACAAGAGGGAGAAGCCACTCCAGCCCGTGGTATGGTCACAGTACCCTCAGCCCAAG
 CTGCTGGAGCACAGGCCACACAGCTGCTGACACTCACACCCTGGTTGGCGCCCATCGTCTCCGAGGGAA
 CCTTCAACCCAGAGCTTCTGCAGCACATCTACCAGCCACTGAACCTGACCATTGGGGTCAGGTGTTTGC
 CGTGGGGAAGTACTACTATTTTCCAGTCTTCTGGAGTCAAGCCGAGGAGTTCTTCATGCGTGGGTAC
 CGGGTGCCTACTACTTCTCACTGACAACCTGCAGCCGTTCCCGGGTCCCCTGGGTCCCCACCCGGC
 TTCTCAGTCCATCCCCATCCAGGGTCACTCCCACTGGGAGGAGACATCCATGCGCCGGATGGAGACCAT
 CAGCCAGCACATTGCTAAGAGGGCTCACCGGGAGGTGGACTACCTCTTCTGCCTTGATGTGGACATGGTG
 TTTCCGAAACCCGTGGGGCCCTGAGACCTGGGAGACCTGGTGGCTGCCATTACCCAAAGCTACTACGCCG
 TTCCCCGCCAGCAGTCCCCTATGAGCGCAGGCGTGTTCCTACTGCCTTGTGGCAGACAGCGAAGGGGA
 CTTCTATTATGGTGGGGCAGTCTTCGGGGGACAGGTGGCCAGGGTATATGAGTTTACTAGGGCTGCCAC
 ATGGCCATCCTGGCGGACAAGGCCAATGGCATCATGGCTGCCTGGCGGGAGGAAAGCCACCTGAACCGTC
 ACTTCATCTCAAACAAGCCGTCCAAGGTGCTGTCCCCGAGTACCTCTGGGACGACAGGAAGCCCAAGCC
 ACCCAGTCTGAAGCTGATCCGCTTTTCTCACTGGACAAGGATATCAGCTGCCTGAGGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207424 representing NM_021996
Red=Cloning site Green=Tags(s)

MHRRRLALGLGFCLLAGTSFSVLWVYLENWL PVSYPVYYLPCPEIFNMKLHYKREKPLQPVVWSQYPQPK
 LLEHRPTQLLTLTPWLAPIVSEGTFNPELLQHIYQPLNLTIGVTVFAVGKYTHFIQSFLSAEEFFMRGY
 RVHYIIFTDNPAAVPGVPLGPHRLLSSIPIQGSHWETS MRMMETISQHIakraHREVDYLFCLDVMV
 FRNPWGPETLGDLVAAIHPSYYAVPRQQFPYERRRVSTAFVADSEGDFYGGAVFGGQVARVYEFTRGCH
 MAILADKANGIMAAWREESHNRHFISNKPSKVLSP EYLWDDRKPQPSLKLIRFSTLKDIDISCLRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1498_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021996

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:

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_021996.6](#)

RefSeq Size: 1951 bp

RefSeq ORF: 1044 bp

Locus ID: 26301

UniProt ID: [Q8N5D6](#)

Cytogenetics: 9q34.2

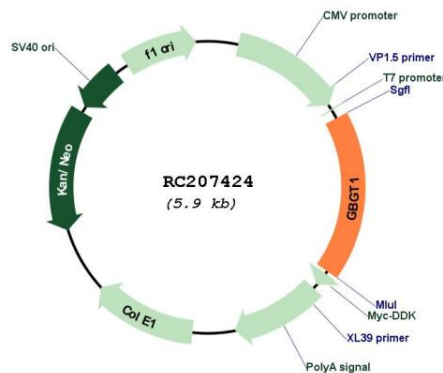
Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - globo series, Metabolic pathways

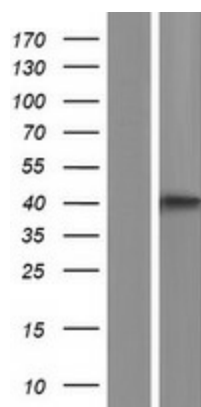
MW: 39.9 kDa

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]

Product images:



Circular map for RC207424



Western blot validation of overexpression lysate (Cat# [LY411838]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207424 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).