

Product datasheet for **RG237252**

GBGT1 (NM_001282629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBGT1 (NM_001282629) 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:	>RG237252 representing NM_001282629. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCATCGCCGGAGACTGGCCCTGGGTCTGGGGTTCTGCCTGTTGGCGGGCACAAGCCTCAGTGTCTCTG
TGGGTGTATCTTGAGAACTGGCTGCCAGTCTCCTATGTCCCTATTATCTCCCCTGCCAGAGATCTTC
AACATGAAGCTGCACTACAAGAGGGAGAAGCCACTCCAGCCCGTGGTATGGTACAGTACCCTCAGCCC
AAGCTGCTGGAGCACAGGCCACACAGCTGCTGACACTCACACCCTGGTTGGCGCCATCGTCTCCGAG
GGAACCTCAACCAGAGCTTCTGCAGCACATCTACCAGCCACTGAACCTGACCATTGGGGTCACGGTG
TTTGCCGTGGGAATCCTTCCTGGAGTCAGCCGAGGAGTTCTTCATGCGTGGGTACCGGGTGCCTACT
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TCCCCATCCAGGGTCACTCCCACTGGGAGGAGACATCCATGCGCCGGATGGAGACCATCAGCCAGCACA
TTGCTAAGAGGGCTCACCGGGAGGTGGACTACCTCTTCTGCCTTGATGTGGACATGGTGTTCGGAACC
CGTGGGGCCCTGAGACCTTGGGAGACCTGGTGGCTGCCATTACCCAAGCTACTACGCCGTTCCCGGCC
AGCAGTCCCCTATGAGCGCAGGCGTGTTCCTACTGCCTTTGTGGCAGACAGCGAAGGGGACTTCTATT
ATGGTGGGGCAGTCTTCGGGGGGCAGGTGGCCAGGATATGAGTTTACTAGGGGCTGCCACATGGCCA
TCCTGGCGGACAAGGCCAATGGCATCATGGCTGCCTGGCGGGAGGAAAGCCACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



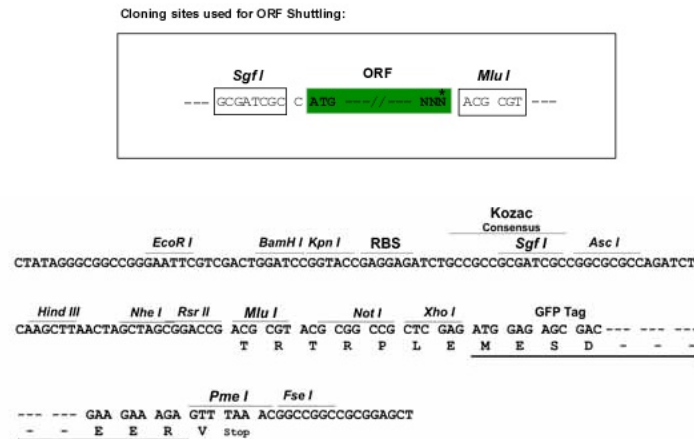
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Protein Sequence: >Peptide sequence encoded by RG237252
 Blue=ORF Red=Cloning site Green=Tag(s)

MHRRRLALGLGFCLLAGTSLSVLWVYLENLVPSYVPPYLPCPEIFNMKLHYKREKPLQPVVWSQYPQP
 KLLLEHRPTQLLTLTPWLAPIVSEGTFNPELLQHIYQPLNLTIGVTVFAVGNPSWSQPRSSSCVGTGCTT
 TSSLTTLQFPFGRWVPTGFSAPSPSRVPTGRRHPCAGWRPSASTLLRGLTGRWTTSSALMWTWCFGT
 RGALRPWETWWLPFTQATTPFPASSSPMSAGVFPLPLWQTAAGKTSIMVQGSSGGRWPGYMSLLGAATWP
 SWRTRPMASWLPGRKAT
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282629

ORF Size: 882 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_001282629.2](#)

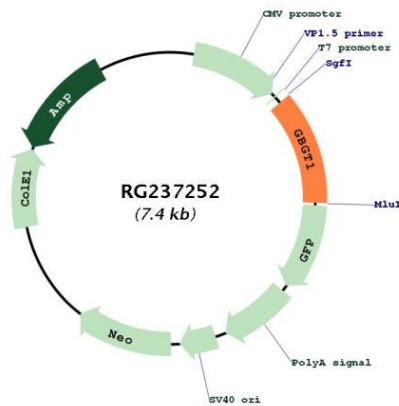
RefSeq Size: 1966 bp

RefSeq ORF: 885 bp

Locus ID: 26301
UniProt ID: [Q8N5D6](#)
Cytogenetics: 9q34.2
Protein Families: Transmembrane
Protein Pathways: Glycosphingolipid biosynthesis - globo series, Metabolic pathways
MW: 33.1 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]

Product images:



Circular map for RG237252