OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG206965

B3GNT5 (NM_032047) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GNT5 (NM_032047) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3GNT5
Synonyms:	B3GN-T5; beta3Gn-T5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG206965 representing NM_032047
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAATGTTGGTTAGTGGCAGAAGAGTCAAAAAATGGCAGTTAATTATTCAGTTATTTGCTACTTGTT
TTTTAGCGAGCCTCATGTTTTTTTGGGAACCAATCGATAATCACATTGTGAGCCATATGAAGTCATATTC
TTACAGATACCTCATAAATAGCTATGACTTTGTGAATGATACCCTGTCTCTTAAGCACACCTCAGCGGGG
CCTCGCTACCAATACTTGATTAACCACAAGGAAAAGTGTCAAGCTCAAGACGTCCTCCTTTTACTGTTTG
TAAAAACTGCTCCTGAAAACTATGATCGACGTTCCGGAATTAGAAGGACGTGGGGCAATGAAAATTATGT
TCGGTCTCAGCTGAATGCCAACATCAAAACTCTGTTTGCCTTAGGAACTCCTAATCCACTGGAGGGAGAA
GAACTACAAAGAAAACTGGCTTGGGAAGATCAAAGGTACAATGATATAATTCAGCAAGACTTTGTTGATT
CTTTCTACAATCTTACTCTGAAATTACTTATGCAGTTCAGTTGGGCAAATACCTATTGTCCACATGCCAA
ATTTCTTATGACTGCTGATGATGACATATTTATTCACATGCCAAATCTGATTGAGTACCTTCAAAGTTTA
GAACAAATTGGTGTTCAAGACTTTTGGATTGGTCGTGTTCATCGTGGTGCCCCTCCCATTAGAGATAAAA
GCAGCAAATACTACGTGTCCTATGAAATGTACCAGTGGCCAGCTTACCCTGACTACACAGCCGGAGCTGC
CTATGTAATCTCCGGTGATGTAGCTGCCAAAGTCTATGAGGCATCACAGACACTAAATTCAAGTCTTTAC
ATAGACGATGTGTTCATGGGCCTCTGTGCCAATAAAATAGGGATAGTACCGCAGGACCATGTGTTTTTTT
CTGGAGAGGGTAAAACTCCTTATCATCCCTGCATCTATGAAAAAATGATGACATCTCATGGACACTTAGA
AGATCTCCAGGACCTTTGGAAGAATGCTACAGATCCTAAAGTAAAAACCATTTCCAAAGGTTTTTTTGGT
CAAATATACTGCAGATTAATGAAGATAATTCTCCTTTGTAAAATTAGCTATGTGGACACATACCCTTGTA
GGGCTGCGTTTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

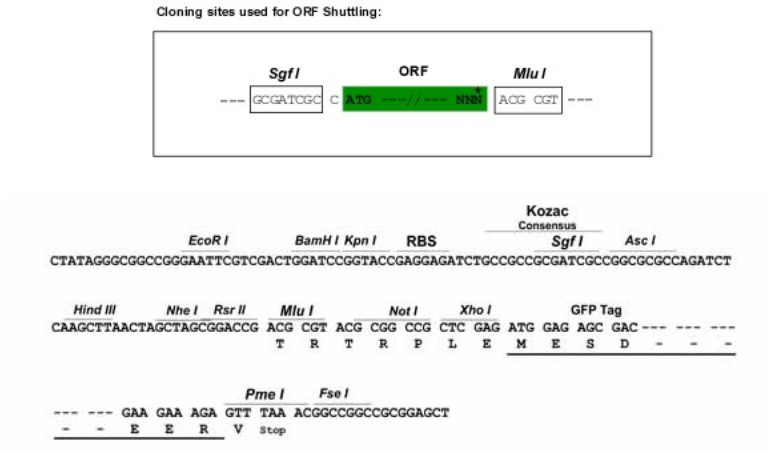
>RG206965 representing NM_032047
Red=Cloning site Green=Tags(s)

MRMLVSGRRVKKWQLIIQLFATCFLASLMFFWEPIDNHIVSHMKSYSYRYLINSYDFVNDTLSLKHTSAG
PRYQYLINHKEKCQAQDVLLLLFVKTAPENYDRRSGIRRTWGNENYVRSQLNANIKTLFALGTPNPLEGE
ELQRKLAWEDQRYNDIIQQDFVDSFYNLTLKLLMQFSWANTYCPHAKFLMTADDDIFIHMPNLIEYLQSL
EQIGVQDFWIGRVHRGAPPIRDKSSKYYVSYEMYQWPAYPDYTAGAAYVISGDVAAKVYEASQTLNSSLY
IDDVFMGLCANKIGIVPQDHVFFSGEGKTPYHPCIYEKMMTSHGHLEDLQDLWKNATDPKVKTISKGFFG
QIYCRLMKIILLCKISYVDTYPCRAAFI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032047

ORF Size: 1134 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_032047.5

RefSeq Size: 4131 bp

RefSeq ORF: 1137 bp

Locus ID: 84002

UniProt ID: Q9BYG0

Cytogenetics: 3q27.1

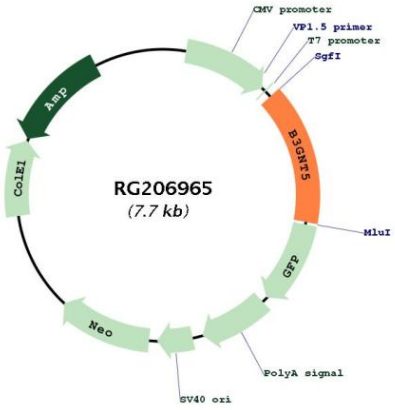
Domains: Galactosyl_T

Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways

Gene Summary: This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II membrane protein. It exhibits strong activity to transfer GlcNAc to glycolipid substrates and is identified as the most likely candidate for lactotriaosylceramide synthase. This enzyme is essential for the expression of Lewis X epitopes on glycolipids. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206965