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 RG209669

B3GNT3 (NM_014256) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GNT3 (NM_014256) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3GNT3
Synonyms:	B3GAL-T8; B3GN-T3; B3GNT-3; beta3Gn-T3; HP10328; TMEM3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG209669 representing NM_014256
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTATCTCCGGCACCGGCGGCCCAATGCCACCCTCATTCTGGCCATCGGCGCTTTCACCCTCCTCC
TCTTCAGTCTGCTAGTGTCACCACCCACCTGCAAGGTCCAGGAGCAGCCACCGGCGATCCCCGAGGCCCT
GGCCTGGCCCACTCCACCCACCCGCCCAGCCCCGGCCCCGTGCCATGCCAACACCTCTATGGTCACCCAC
CCGGACTTCGCCACGCAGCCGCAGCACGTTCAGAACTTCCTCCTGTACAGACACTGCCGCCACTTTCCCC
TGCTGCAGGACGTGCCCCCCTCTAAGTGCGCGCAGCCGGTCTTCCTGCTGCTGGTGATCAAGTCCTCCCC
TAGCAACTATGTGCGCCGCGAGCTGCTGCGGCGCACGTGGGGCCGCGAGCGCAAGGTACGGGGTTTGCAG
CTGCGCCTCCTCTTCCTGGTGGGCACAGCCTCCAACCCGCACGAGGCCCGCAAGGTCAACCGGCTGCTGG
AGCTGGAGGCACAGACTCACGGAGACATCCTGCAGTGGGACTTCCACGACTCCTTCTTCAACCTCACGCT
CAAGCAGGTCCTGTTCTTACAGTGGCAGGAGACAAGGTGCGCCAACGCCAGCTTCGTGCTCAACGGGGAT
GATGACGTCTTTGCACACACAGACAACATGGTCTTCTACCTGCAGGACCATGACCCTGGCCGCCACCTCT
TCGTGGGGCAACTGATCCAAAACGTGGGCCCCATCCGGGCTTTTTGGAGCAAGTACTATGTGCCAGAGGT
GGTGACTCAGAATGAGCGGTACCCACCCTATTGTGGGGGCGGTGGCTTCTTGCTGTCCCGCTTCACGGCC
GCTGCCCTGCGCCGTGCTGCCCATGTCTTGGACATCTTCCCCATTGATGATGTCTTCCTGGGTATGTGTC
TGGAGCTTGAGGGACTGAAGCCTGCCTCCCACAGCGGCATCCGCACGTCTGGCGTGCGGGCTCCATCGCA
ACACCTGTCCTCCTTTGACCCCTGCTTCTACCGAGACCTGCTGCTGGTGCACCGCTTCCTACCTTATGAG
ATGCTGCTCATGCGGGATGCGCTGAACCAGCCCAACCTCACCTGCGGCAATCAGACACAGATCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

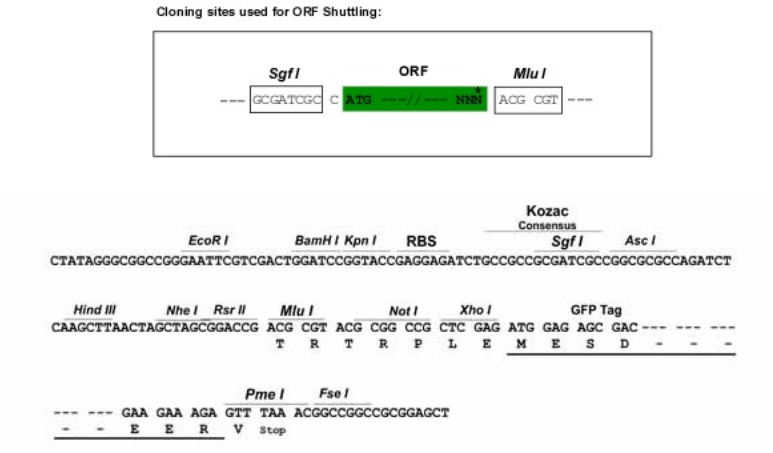
>RG209669 representing NM_014256
Red=Cloning site Green=Tags(s)

MKYLRHRRPNATLILAIGAFTLLLFSLLVSPPTCKVQEQPPAIPEALAWPTPPTRPAPAPCHANTSMVTH
PDFATQPQHVQNFLLYRHCRHFPLLQDVPPSKCAQPVFLLLVIKSSPSNYVRRELLRRTWGRERKVRGLQ
LRLLFLVGTASNPHEARKVNRLLELEAQTHGDILQWDFHDSFFNLTLKQVLFLQWQETRCANASFVLNGD
DDVFAHTDNMVFYLQDHDPGRHLFVGQLIQNVGPIRAFWSKYYVPEVVTQNERYPPYCGGGGFLLSRFTA
AALRRAAHVLDIFPIDDVFLGMCLELEGLKPASHSGIRTSGVRAPSQHLSSFDPCFYRDLLLVHRFLPYE
MLLMRDALNQPNLTCGNQTQIY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014256

ORF Size: 1116 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_014256.3, NP_055071.2

RefSeq Size: 2720 bp

RefSeq ORF: 1119 bp

Locus ID: 10331

UniProt ID: Q9Y2A9

Cytogenetics: 19p13.11

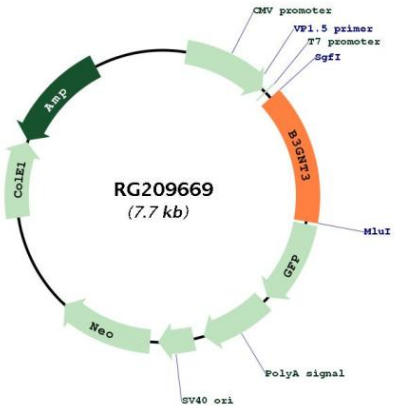
Domains: Galactosyl_T

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 transmembrane protein and contains a signal anchor that is not cleaved. It prefers the substrates of lacto-N-tetraose and lacto-N-neotetraose, and is involved in the biosynthesis of poly-N-acetyllactosamine chains and the biosynthesis of the backbone structure of dimeric sialyl Lewis a. It plays dominant roles in L-selectin ligand biosynthesis, lymphocyte homing and lymphocyte trafficking. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209669