

Product datasheet for **RG234220**

B4GALNT1 (NM_001276468) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4GALNT1 (NM_001276468) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B4GALNT1
Synonyms:	GALGT; GalNAc-T; GALNACT; SPG26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234220 representing NM_001276468
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGCTGGCCCGCGGCCCTGTGCGCTCTGGTCTTCTGCTCGCCTGCGCCTCGCTGGGGCTCCTGT
 ACGCGAGCACCCGGGACGCGCCCGCCTCCGGCTACCTCTTGCCTGGGCGCCCCGCAAAGCCCCG
 CAGGCCGAGCTGCCAGATCTTGCTCTGAGCCCCGCTACGCACACATCCCGGTACAGATCAAGGAGCAA
 GTAGTGGGAGCCAGTCCCCAGCTGACCAGCTGCTCATAGCCCCGCAACTCCCCGCTCCAGTACCCCC
 TACAGGGTGTGGAAGTTCAGCCCCTCAGGAGCATCTTGGTGCCAGGGCTGAGCCTTACGGCAGCTTCTGG
 TCAGGAGGTATACCAGGTGAACCTGACTGCCTCCCTAGGCACCTGGGACGTGGCAGGGGAAGTACTGGA
 GTTACTCTCACTGGAGAGGTGAGGAGATCTCACCTTGTGAGCCAGGGCTGGACCAACTCAACAGGC
 AACTACAACCTGGTCACTTACAGCAGCCGAAGCTACCAGACCAACACAGCAGACACAGTCCGGTTCTCCAC
 CGAGGGACATGAGGCTGCTTTCATATCCGCATAAGACACCCGCCAACCTCGGCTGTACCCACCTGGG
 TCTCTACCCAGGGAGCCAGTACAACATCAGCGCTCTAGTACGATTGCCACCAAGACCTTCTCCGTT
 ATGATCGGCTACGGGCTCTCATACCAAGTATCCGCGCTTCTACCCAACGGTTACCGTGGTCATCGCTGA
 CGACAGCGACAAGCCAGAGCGGTTAGTGGCCCCACGTGGAACACTATCTCATGCCCTTCGGCAAGGGC
 TGGTTCGAGGCCGGAACCTGGCCGTGTCTCAAGTAACCACCAAGTACGTGCTGTGGGTGGACGACGACT
 TCGTCTTACGGCGCGGACGCGGCTGGAGAGGCTTGTGGACGTGCTGGAGCGGACGCCGCTGGACCTGGT
 GGGGGCGCGGTGCGCGAGATCTCCGGCTTTCACCACCTTATCGGCAGCTGCTGAGCGTGGAGCCCCGC
 GCCCAGGCCTCGGAACTGCCTCCGGCAAAGGCGCGGCTTCCACCACGAGCTCGTCGGCTTCCCAGGCT
 GCGTGGTCACCGACGGCGTGGTTAACTTCTTCTGGCGGACTGACAAGGTGCGCGAGGTCGGTTTCGA
 CCCCCGCTCAGCCGCTGGCTCATCTGGAATCTTCTTGGATGGGCTTGGTTCCCTTCGGGTTGGCTCC
 TGCTCCGACGTCGTGGTGGATCATGCATCCAACTGAAGCTGCCTTGGACATCAAGGGATGCCGGAGCAG
 AGACTTACGCCCGGTACCGTTACCCAGGATCACTGGACGAGAGCCAGATGGCCAAACACCGGCTGCTCTT
 CTTCAAACACCGGCTGCAGTGCATGACCTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234220 representing NM_001276468
 Red=Cloning site Green=Tags(s)

MWLGRRALCALVLLACASLGLLYASTRDAPGLRPLAPWAPPQSPRRPELPDLAPEPRYAHIPVRIKEQ
 VVGSQSPADQLLIAPANSPLQYPLQGVVQPLRSILVPGLSLQAASGQEVYQVNL TASLGTWDVAGEVTG
 VTLTGEGQADLTLVSPGLDQLNRQLQLVTYSSRSYQNTADTVRFSTEGHEAAFTIRIRHPPNPRLYPPG
 SLPQGAQYNISALVTIATKTFRLRYDRLRALITSIRRFYPTVTVVIADDSKPERVSGPYVEHYLMPFGKG
 WFAGRNLAVSQVTTKYVLWDDDFVFTARTRLERLVDLERTPLDLVGGAVREISGFATTYRQLLSVEPG
 APGLGNCLRQRRGFHHELVGFPVCVVDGVTNFFLARTDKVREVGFDPRLSRVAHLEFFLDGLGSLRVGS
 CSDVVVDHASKLKLPTWSRDAGAETYARYRYPGSLDESQMAKHRLLLFFKHRLQCMTSQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001276468

ORF Size: 1434 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_001276468.2](#)

RefSeq Size: 2428 bp

RefSeq ORF: 1437 bp

Locus ID: 2583

UniProt ID: [Q00973](#)

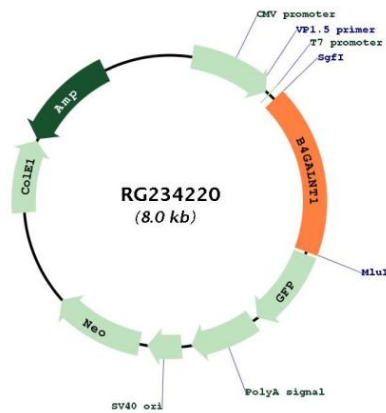
Cytogenetics: 12q13.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways

Gene Summary: GM2 and GD2 gangliosides are sialic acid-containing glycosphingolipids. GalNAc-T is the enzyme involved in the biosynthesis of G(M2) and G(D2) glycosphingolipids. GalNAc-T catalyzes the transfer of GalNAc into G(M3) and G(D3) by a beta-1,4 linkage, resulting in the synthesis of G(M2) and G(D2), respectively. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2013]

Product images:



Circular map for RG234220