

Product datasheet for RC206795

B3GNT4 (NM_030765) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GNT4 (NM_030765) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3GNT4
Synonyms:	B3GN-T4; beta3Gn-T4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206795 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTCCTCCCCAGGCTTCCGCAGCCACCAGGGAAGGGGCGGTAGGAGTGGCCTTTACCAAAGGGAC
CGGCGATGCTCTGCAGGCTGTGCTGGCTGGTCTCGTACAGCTTGGCTGTGCTGTTGCTCGGCTGCCTGCT
CTTCTGAGGAAGGCGGCCAAGCCCGCAGGAGACCCACGGCCACCAGCCTTTCTGGGCTCCCCAACA
CCCCGTACAGCCGGTGTCCACCAACCACACAGTGTCTAGCGCCTCTGTCCCTGCCTAGCCGTACC
GTCTTTCTTGACCTATCGTCACTGCCGAAATTTCTCTATCTTGCTGGAGCCTTCAGGCTGTTCCAAGGA
TACCTTCTTGCTCCTGGCCATCAAGTCACAGCCTGGTCAAGTGGAGCGAGGTGCGGCTATCCGCAGCAGG
TGGGGCAGGGTGGGGGATGGGCTAGGGGCCGGCAGCTGAAGCTGGTGTCTCCTCCTAGGGGTGGCAGGAT
CCGCTCCCCCAGCCAGCTGCTGGCCTATGAGAGTAGGGAGTTTGATGACATCCTCCAGTGGGACTTCAC
TGAGGACTTCTTCAACCTGACGCTCAAGGAGCTGCACCTGCAGCGCTGGGTGGTGGCTGCCTGCCCCAG
GCCATTTTCATGCTAAAGGGAGATGACGATGTCTTTGTCCACGTCCCCAACGTGTTAGAGTTCCTGGATG
GCTGGGACCCAGCCAGGACCTCCTGGTGGGAGATGTATCCGCCAAGCCCTGCCAACAGGAACACTAA
GGTCAAATACTTCATCCCACCCTCAATGTACAGGGCCACCCACTACCCACCCTATGCTGGTGGGGAGGA
TATGTCATGTCCAGAGCCACAGTGGCGCCTCCAGGCTATCATGGAAGATGCTGAACCTTCCCCATTG
ATGATGTCTTTGTGGGTATGTGCCTGAGGAGGCTGGGGCTGAGCCCTATGCACCATGCTGGCTTCAAGAC
ATTTGGAATCCGGCGGCCCTGGACCCCTTAGACCCCTGCCTGTATAGGGGGCTCCTGCTGGTTCACCGC
CTCAGCCCTCGAGATGTGGACCATGTGGGCACTGGTGCAGATGAGGGGCTCAAGTGTGCAGCTGGCC
CCATACCCAGCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206795 protein sequence
 Red=Cloning site Green=Tags(s)

MLPPQASAAHQGRGGRSGLLPKGPAMLCRLCWLVSYS LAVLLLGCLLFLRKAAPAGDPTAHQPFWAPPT
 PRHSRCPNHTVSSASLSLPSRHRLFLTYRHCRNFSILLEPSGCSKDTFLLLAIKSQPGHVERRAAIRST
 WGRVGGWARGRQLKLVLLGVAGSAPPAQLLAYESREFDDILQWDFTEDFNLT LKELHLQRWVVAACPQ
 AHFMLKGDDDDVFVHVPNVLEFLDGWDPAQDLLVGDVIRQALPNRNTKVKYFIPPSMYRATHYPPYAGGGG
 YVMSRATVRRLLQAIMEDAELFPIDDVFVGMCLRRLGLSPMHAGFKTFGIRRP LDPCLYRGLLLVHR
 LSPLEMWTMWALVTDEGLKCAAGPIQQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6750_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030765

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_030765.4](#)

RefSeq Size: 1554 bp

RefSeq ORF: 1137 bp

Locus ID: 79369

UniProt ID: [Q9C0J1](#)

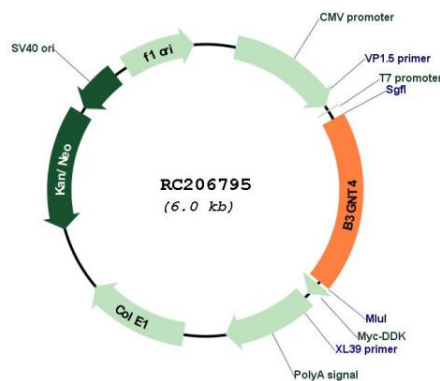
Cytogenetics: 12q24.31

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

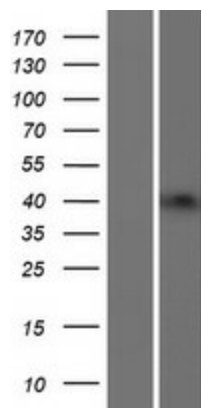
MW: 42.3 kDa

Gene Summary: This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase protein family. The encoded enzyme is involved in the biosynthesis of poly-N-acetyllactosamine chains and prefers lacto-N-neotetraose as a substrate. It is a type II transmembrane protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC206795



Western blot validation of overexpression lysate (Cat# [LY410727]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206795 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).