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Product datasheet for RC206913

B3GALNT2 (NM_152490) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GALNT2 (NM_152490) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3GALNT2
Synonyms:	B3GalNAc-T2; MDDGA11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC206913 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGAAACTGGCTGGTGCTGCTGTGCCCGTGTGTGCTCGGGGCCGCGCTGCACCTCTGGCTGCGGCTGC
GCTCCCCGCCGCCCGCCTGCGCCTCCGGGGCCGGCCCTGCAGATCAGTTGGCCTTATTTCCTCAGTGGAA
ATCTACTCACTATGATGTGGTAGTTGGCGTGTTGTCAGCTCGCAATAACCATGAACTTCGAAACGTGATA
AGAAGCACCTGGATGAGACATTTGCTACAGCATCCCACATTAAGTCAACGTGTGCTTGTGAAGTTCATAA
TAGGTGCTCATGGCTGTGAAGTGCCTGTGGAAGACAGGGAAGATCCTTATTCCTGTAAACTACTCAACAT
CACAAATCCAGTTTTGAATCAGGAAATTGAAGCGTTCAGTCTGTCCGAAGACACTTCATCGGGGCTGCCT
GAGGATCGAGTTGTCAGCGTGAGTTTCCGAGTTCTCTACCCCATCGTTATTACCAGTCTTGGAGTGTTCT
ACGATGCCAATGATGTGGGTTTCCAGAGGAACATCACTGTCAAACTTTATCAGGCAGAACAAGAGGAGGC
CCTCTTCATTGCTCGCTTCAGTCCTCCAAGCTGTGGTGTGCAGGTGAACAAGCTGTGGTACAAGCCCGTG
GAACAATTCATCTTACCAGAGAGCTTTGAAGGTACAATCGTGTGGGAGAGCCAAGACCTCCACGGCCTTG
TGTCAAGAAATCTCCACAAAGTGACAGTGAATGATGGAGGGGGAGTTCTCAGAGTCATTACAGCTGGGGA
GGGTGCATTGCCTCATGAATTCTTGGAAGGTGTGGAGGGAGTTGCAGGTGGTTTTATATATACTATTCAG
GAAGGTGATGCTCTCTTACACAACCTTCATTCTCGCCCTCAAAGACTTATTGATCATATAAGGAATCTCC
ATGAGGAAGATGCCTTACTGAAGGAGGAAAGCAGCATCTATGATGATATTGTTTTTGTGGATGTTGTCGA
CACTTATCGTAATGTTCCTGCAAAATTATTGAACTTCTATAGATGGACTGTGGAAACAACGAGCTTCAAT
TTGTTGCTGAAGACAGATGATGACTGTTACATAGACCTCGAAGCTGTATTTAATAGGATTGTCCAAAAGA
ATCTGGATGGGCCTAATTTTTGGTGGGGAAATTTCAGACTGAATTGGGCAGTTGACCGAACCGGAAAGTG
GCAGGAGTTGGAGTACCCGAGCCCCGCTTACCCTGCCTTTGCATGTGGGTCAGGATATGTGATCTCCAAG
GACATCGTCAAGTGGCTGGCAAGCAACTCGGGGAGGTTAAAGACCTATCAGGGTGAAGATGTAAGCATGG
GCATCTGGATGGCTGCCATAGGACCTAAAAGATACCAGGACAGTCTGTGGCTGTGTGAGAAGACCTGTGA
GACAGGAATGCTGTCTTCTCCTCAGTATTCTCCGTGGGAACTGACGGAACTGTGGAAACTGAAGGAACGG
TGCGGTGATCCTTGTCGATGTCAAGCAAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206913 protein sequence
Red=Cloning site Green=Tags(s)

MRNWLVLLCPCVLGAALHLWLRLRSPPPACASGAGPADQLALFPQWKSTHYDVVVGVLSARNNHELRNVI
RSTWMRHLLQHPTLSQRVLVKFIIGAHGCEVPVEDREDPYSCKLLNITNPVLNQEIEAFSLSEDTSSGLP
EDRVVSVSFRVLYPIVITSLGVFYDANDVGFQRNITVKLYQAEQEEALFIARFSPPSCGVQVNKLWYKPV
EQFILPESFEGTIVWESQDLHGLVSRNLHKVTVNDGGGVLRVITAGEGALPHEFLEGVEGVAGGFIYTIQ
EGDALLHNLHSRPQRLIDHIRNLHEEDALLKEESSIYDDIVFVDVVDTYRNVPAKLLNFYRWTVETTSFN
LLLKTDDDCYIDLEAVFNRIVQKNLDGPNFWWGNFRLNWAVDRTGKWQELEYPSPAYPAFACGSGYVISK
DIVKWLASNSGRLKTYQGEDVSMGIWMAAIGPKRYQDSLWLCEKTCETGMLSSPQYSPWELTELWKLKER
CGDPCRCQAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6321_h11.zip

Restriction Sites: SgfI-MluI

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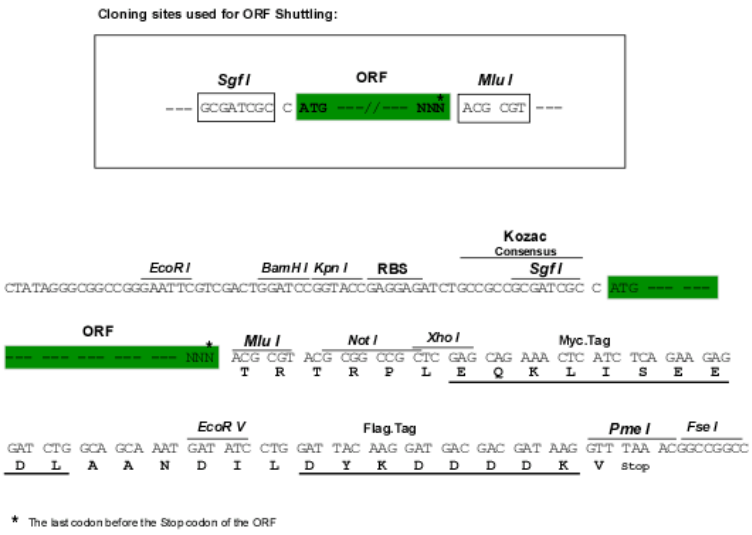
Cloning Scheme:



ACCN: NM_152490

ORF Size: 1500 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_152490.3

RefSeq Size: 4755 bp

RefSeq ORF: 1503 bp

Locus ID: 148789

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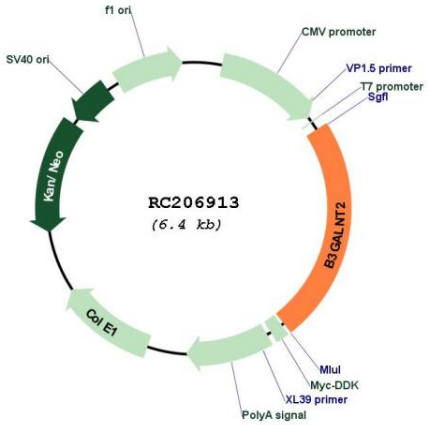
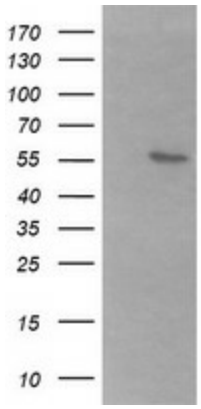
UniProt ID:	Q8NCR0
Cytogenetics:	1q42.3
Domains:	Galactosyl_T
MW:	56.7 kDa
Gene Summary:	This gene encodes a member of the glycosyltransferase 31 family. The encoded protein synthesizes GalNAc:beta-1,3GlcNAc, a novel carbohydrate structure, on N- and O-glycans. Alternatively spliced transcript variants that encode different isoforms have been described. [provided by RefSeq, Mar 2013]

Product images:



Circular map for RC206913



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY B3GALNT2 (Cat# RC206913, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-B3GALNT2(Cat# [TA505973]). Positive lysates [LY407497] (100ug) and [LC407497] (20ug) can be purchased separately from OriGene.

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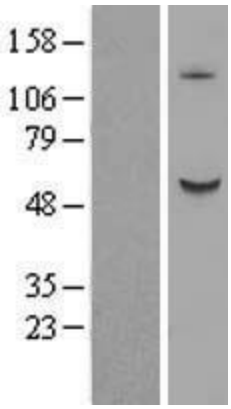
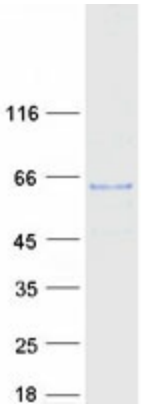


Western blot validation of overexpression lysate (Cat# [LY407497]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206913 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified B3GALNT2 protein (Cat# [TP306913]). The protein was produced from HEK293T cells transfected with B3GALNT2 cDNA clone (Cat# RC206913) using MegaTran 2.0 (Cat# [TT210002]).

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