

Product datasheet for **RG206913**

B3GALNT2 (NM_152490) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GALNT2 (NM_152490) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3GALNT2
Synonyms:	B3GalNAc-T2; MDDGA11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206913 representing NM_152490
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGCGAAACTGGCTGGTGTCTGTGCTGCGCCGTGTGTCTCGGGGCCGCGCTGCACCTCTGGCTGCGGCTGC
 GCTCCCCGCCGCCCGCTGCGCCTCCGGGGCCGCGCCTGCAGATCAGTTGGCCTTATTTCCCTCAGTGGAA
 ATCTACTCACTATGATGTGGTAGTTGGCGTGTTGTCTCAGCTCGCAATAACCATGAACCTCGAAACGTGATA
 AGAAGCACCTGGATGAGACATTTGCTACAGCATCCACATTAAGTCAACGTGTGCTTGTGAAGTTCATAA
 TAGGTGCTCATGGCTGTGAAGTGCTGTGAAGACAGGAAGATCCTTATTCCTGTAAACTACTCAACAT
 CACAAATCCAGTTTGAATCAGGAAATTGAAGCGTTCAGTCTGTCCGAAGACACTTCATCGGGGCTGCCT
 GAGGATCGAGTTGTCAGCGTGAGTTTCCGAGTTCTCTACCCATCGTTATTACCAGTCTTGAGTGTCT
 ACGATGCCAATGATGTGGTTTCCAGAGGAACATCACTGTCAAACCTTATCAGGCAGAACAAGAGGAGGC
 CCTCTTATTGCTCGCTTCACTCTCAAGCTGTGGTGTGAGGTGAACAAGCTGTGGTACAAGCCCGTG
 GAACAATTCATCTTACCAGAGAGCTTTGAAGGTACAATCGTGTGGGAGAGCCAAGACCTCCACGGCCTTG
 TGTCAAGAAATCTCCACAAAGTGACAGTGAATGATGGAGGGGAGTTCTCAGAGTCATTACAGCTGGGGA
 GGGTGCATTGCCTCATGAATCTTGAAGGTGTGGAGGGAGTTGCAGGTGGTTTTATATATACTATTTCAG
 GAAGGTGATGCTCTTACACAACCTTCATTCTCGCCCTCAAAGACTTATTGATCATATAAGGAATCTCC
 ATGAGGAAGATGCCTTACTGAAGGAGGAAAGCAGCATCTATGATGATATTGTTTTTGGGATGTTGTCGA
 CACTTATCGTAATGTTCTGCAAAATTATTGAACCTCTATAGATGGACTGTGGAAACAACGAGCTTCAAT
 TTGTTGCTGAAGACAGATGATGACTGTTACATAGACCTCGAAGCTGTATTTAATAGGATTGTCCAAAAGA
 ATCTGGATGGGCCTAATTTTTGGTGGGAAATTTCACTGAATTGGGCAGTTGACCGAACCGGAAAGTG
 GCAGGAGTTGGAGTACCGAGCCCCGCTTACCCTGCCTTGCATGTGGGTCAAGGATATGTGATCTCCAAG
 GACATCGTCAAGTGGCTGGCAAGCAACTCGGGAGGTTAAAGACCTATCAGGGTGAAGATGTAAGCATGG
 GCATCTGGATGGCTGCCATAGGACCTAAAAGATACCAGGACAGTCTGTGGCTGTGTGAGAAGACCTGTGA
 GACAGGAATGCTGTCTTCTCCTCAGTATTCTCCGTGGGAAGTACGGAAGTGTGGAACTGAAGGAACGG
 TCGGGTATCCTGTCTGATGTCAAGCAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206913 representing NM_152490
 Red=Cloning site Green=Tags(s)

MRNWL VLLCPCVLGAALHLWRLRSPPPACASGAGPADQLALFPQWKSTHYDVVVGVL SARNNHELNRVI
 RSTWMRHLLQHPTLSQRVLVKFIIGAHCCEVPVEDREDPYCKLLNITNPVLNQEIEAFSLSEDTSSGLP
 EDVVSVSFRVLYPIVITSLGVFYDANDVGFQRNITVKLYQAEQEEALFIARFSPSCGVQVKNLWYKPV
 EQFILPESFEGTIVWESQDLHGLVSRNLHKVTVNDGGGLRVITAGEGALPHEFLEGVEGVAGGFITYTIQ
 EGDALLHNLHSRQRLIDHIRNLHEEDALLKEESSIYDDIVFVDVVDTYRNVPAKLLNFYRWTVETTSFN
 LLLKTDCCYIDLEAVFNRIVQKNLDGPNFWGNFRLNWAVDRTGKWQELEYPSPAYPAFACGSGYVISK
 DIVKWLASNSGRKTYQGEDVSMGIWMAAIGPKRYQDSLWLCCKTCTGMLSSPQYSPWELTELWKLKER
 CGDPCRCQAR

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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](#)

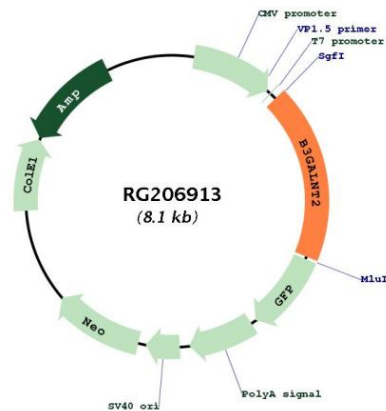
RefSeq Size: 2022 bp

RefSeq ORF: 1503 bp

Locus ID: 148789

UniProt ID:	<u>Q8NCR0</u>
Cytogenetics:	1q42.3
Domains:	Galactosyl_T
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 RG206913