

Product datasheet for **RG214024**

B3GNT6 (NM_138706) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GNT6 (NM_138706) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3GNT6
Synonyms:	3-Gn-T6; B3Gn-T6; beta-1; beta3Gn-T6; BGnT-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214024 representing NM_138706 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTTTCCCTGCCGAGGTCCCTGACTGCCAAGACTCTGGCCTGCCTCCTGGTGGGCGTGAGTTTCT
TAGCACTGCAGCAGTGGTTCTCCAGGCGCCAAGGTCCCCGCGGGAGGAGAGGTCCCCGAGGAGGAGAC
GCCAGAGGGTCCCACCGACGCTCCCGGGCTGACGAGCCGCCCTCGGAGCTCGTCCCGGGCCCCCGTGC
GTGGCGAACGCCCTCGGCGAACGCCACGGCCGACTTCGAGCAGCTGCCCGCGCATCCAGGACTTCTGC
GGTACCGCCACTCCGCCACTTCCCGCTGCTTTGGGACGCACCGCCAAGTGCGCCGGCGCCGAGGCGT
GTTCTGCTCCTGGCGGTGAAGTCGGCGCTGAGCACTACGAGCGACCGAGCTCATCCGGCGCAGTGG
GGCAAGAGCGCAGCTACGGCGGGCGGCCAGTGCGCCGCCTTTTCTATTGGGCACCCCGGGCCCCGAGG
ACGAGGGCGCGCGGAGCGGCTGGCGGAGCTGGTGGCGCTGGAGGCGCGGAGCAGCGCGCAGCTGTGCA
GTGGGCCCTTCGCGGACACCTTCTCAACCTCACGCTCAAGCACCTGCACTTGCTCGACTGGCTGGCTGCA
CGCTGCCCGCACGCGGCTTTCTGCTCAGCGGCGACGACGAGTGTTCGTGCACACCGCCAACGTAGTCC
GTTCTTGCAGGCGCAGCCACCCGGCCGCCACCTGTTCTCCGGCCAGCTCATGGAGGGTCCGTGCCCAT
CCGCGACAGCTGGAGCAAGTACTTGTGCCCGCCAGCTCTTCCCCGGTCCGCTTACCCGGTGTACTGC
AGCGGCGGGGCTTCTCCTGTCCGGCCCCACGGCCCCGGCCCTGCGCGCGGCGCCACACCCCGC
TCTTCCCCATCGACGACGCCTACATGGGATGTGTCTGGAGCGCGCCGGCCTGGCGCCACGCGGCCACGA
GGGCATCCGGCCCTTCGGCGTGCAGCTGCCTGGCGCACAGCAGTCTCCTTCGACCCCTGCATGTACCGC
GAGTTGCTGCTAGTGCACCGCTTCGCGCCCTACGAGATGCTGCTCATGTGGAAGGCGCTGCACAGCCCCG
CGCTCAGCTGTGACCGGGACACCGGGTCTCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



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Protein Sequence: >RG214024 representing NM_138706
 Red=Cloning site Green=Tags(s)

MAFPCRRSLTAKTLACLVLGVSFALQQWFLQAPRSPREERSPQEETPEGPTDAPAADEPPSELVPGPPC
 VANASANATADFEQLPARIQDFLRYRHRHFPLLDWAPAKCAGGRGVFLLAVKSAPEHYERRELIRRTW
 GQERSYGGRPVRRLLFLLGTPGPEDEARAERLAELVALEAREHGDVLQWAFADTFNLTLKHLHLLDWLAA
 RCPHARFLLSGDDDFVHTANVVRFLQAQPPGRHLFSGQLMEGSVPIRDSWSKYFVPPQLFPGSAYPVYC
 SGGGFLLSGPTARALRAARHTPLFPIDDAYMGMCLEAGLAPSGHEGIRPFQVQLPGAQSSFDPCMYR
 ELLLVHRFAPYEMLLMWKALHSPALSCDRGHRVS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138706

ORF Size: 1152 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_138706.3](#)

RefSeq Size: 2468 bp

RefSeq ORF: 1155 bp

Locus ID: 192134

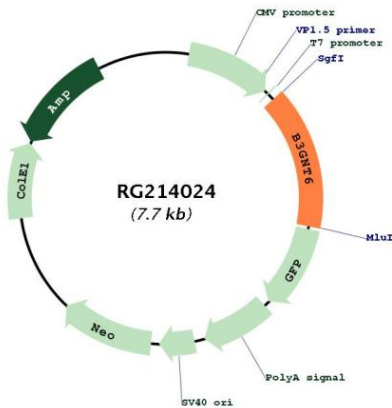
UniProt ID: [Q6ZMB0](#)

Cytogenetics: 11q13.5

Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

Gene Summary: The protein encoded by this gene is a beta-1,3-N-acetylglucosaminyltransferase that adds an N-acetylglucosamine moiety to N-acetylgalactosamine-modified serine or threonine. The encoded enzyme is responsible for creating the core 3 structure of O-glycans, which are important components of mucin-type glycoproteins. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RG214024