

Product datasheet for **RG218503**

B3GNT7 (NM_145236) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GNT7 (NM_145236) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3GNT7
Synonyms:	beta3GnT7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218503 representing NM_145236 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCTGTGGAAGAAAACCGTCTACCGAGTCTGTGCCTGGCCCTGGCCCTGCTCGTGGCCGTGACGG
TGTTCCAACGCAGTCTACCCCTGGTCAGTTTCTGCAGGAGCCTCCGCCACCCACCCTGGAGCCACAGAA
GGCCCAAGCCAAATGGACAGCTGGTGAACCCCAACAATTCTGGAAGAACCCGAAAGATGTGGCTGCG
CCCACGCCATGGCCTCTCAGGGGCCAGGCCGGGACGTGACCACCACTAACTGCTCAGCCAATATCA
ACTTGACCCACCAGCCCTGGTTCAGGTCTGGAGCCGAGTTCGGCAGTTTCTCTTCTACCGCCACTG
CCGCTACTTCCCATGCTGCTGAACCACCCGGAGAAGTGCAGGGGCGATGCTACCTGCTGGTGGTTGTC
AAGTCGGTCATCACGCAGCACGACCGCCGCGAGGCCATCCGCCAGACCTGGGGCCGCGAGCGGCAGTCCG
CGGGTGGGGCCGAGGCGCCGTGCGCACCTTCTCCTGCTGGGCACGGCCTCCAAGCAGGAGGAGCGCAC
GCACTACCAGCAGCTGCTGGCCTACGAAGACCGCCTCTACGGCGACATCCTGCAGTGGGGCTTCTCGAC
ACCTTCTCAACCTGACCCTCAAGGAGATCCACTTCTCAAGTGGCTGGACATCTACTGCCCCACGTCC
CCTTCATTTTCAAAGGCGACGATGACGTCTTCGTCAACCCCAACAACCTGCTAGAATTTCTGGCTGACCG
GCAGCCACAGGAAAACCTGTTGTTGGCGATGTCTGCAGCACGCTCGGCCATTTCGAGGCGGGTGGCTTCC
TCATGGCCGCGACCTGGCCCGGCCCTGCACCATGCCTGCGACACCCTGGAGCTCTACCCGATCGACGA
CGTCTTTCTGGGCATGTGCCTGGAGGTGCTGGGCGTGCAGCCACGGCCACGAGGGCTTCAAGACTTTC
GGCATCTCCCGAAACCGCAACAGCCGATGAACAAGGAGCCGTGCTTTTTCCGCGCCATGCTCGTGGTGC
ACAAGTCTGCCCCCTGAGCTGCTCGCCATGTGGGGCTGGTGCACAGCAATCTCACCTGCTCCCGCAA
GCTCCAGGTGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218503 representing NM_145236
Red=Cloning site Green=Tags(s)

```
MSLWKKTVYRSLCLALALLVAVTVFQSRSLTPGQFLQEPPTLEPQKAQKPNGQLVNPNNFWKNPKDVAA
PTPMASQGPQAWDVTTTNCANINLTHQPWFQVLEPQFRQFLFYRHCYFPMLLNHPEKCRGDVYLLVVV
KSVITQHDRREAIRQTWGRERQSAGGGRGAVRTLFLLLGTASKQEERTHYQQLLAYEDRLYGDILQWGFLLD
TFFNLTLKEIHFLKWLDIYCPHVPFIFKGDVDFVNPTNLLLEFLADRQPQENLFVGDVQLQHARPIRRKDN
KYYIPGALYGKASYPPYAGGGGFLMAGSLARRLHHACDTLELYPIDDVFLGMCLEVLGVQPTAHEGFKTF
GISRRNRSRMNKEPCFFRAMLVVHKLLPPELLAMWGLVHSNLTCSRKLQVL
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145236

ORF Size: 1203 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_145236.3](#)

RefSeq Size: 3641 bp

RefSeq ORF: 1206 bp

Locus ID: 93010

UniProt ID: [Q8NFL0](#)

Cytogenetics: 2q37.1

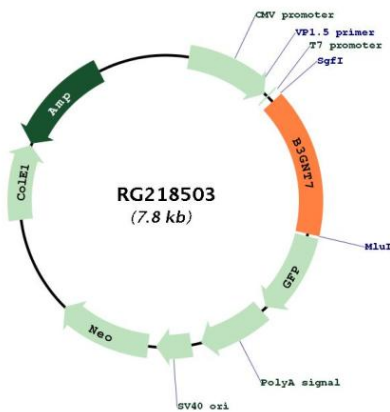
Domains: Galactosyl_T

Protein Families: Transmembrane

Protein Pathways: Keratan sulfate biosynthesis, Metabolic pathways

Gene Summary: May be involved in keratane sulfate biosynthesis. Transfers N-acetylgalactosamine on to keratan sulfate-related glycans. May play a role in preventing cells from migrating out of the original tissues and invading surrounding tissues.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG218503