

Product datasheet for **RG203688**

GALNT14 (NM_024572) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT14 (NM_024572) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GALNT14
Synonyms:	GalNac-T10; GalNac-T14; GALNT15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG203688 representing NM_024572
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATCGCGCGCTGACTCGTCGGCTGGTTCTGCCAGTCTTCGGGGTCTCTGGATCACGGTGTCTGTTCT
 TCTGGGTAACCAAGAGGAAGTTGGAGGTGCCGACGGGACCTGAAGTGCAGACCCCTAAGCCTTCGGACGC
 TGACTGGGACGACCTGTGGGACCAAGTTTATGAGCGGCGGTATCTGAATGCCAAAAAGTGGCGCGTTGGT
 GACGACCCCTATAAGCTGTATGCTTTCAACCAGCGGGAGAGTGAAGCGGATCTCCAGCAATCGGGCCATCC
 CGGACACTCGCCATCTGAGATGCACACTGCTGGTGTATTGCACGGACCTCCACCCACTAGCATCATCAT
 CACCTTCCACAACGAGGCCCGCTCCACGCTGCTCAGGACCATCCGCAGTGTATTAACCGCACCCCTACG
 CATCTGATCCGGGAAATCATATTAGTGGATGACTTCAGCAATGACCCTGATGACTGTAACAGCTCATCA
 AATTGCCCAAGGTGAAATGCTTGCGAATAATGAACGGCAAGGTCTGGTCCGGTCCCGGATTCGGGGCGC
 TGACATCGCCAGGGCACCCTGACTTTCCTCGACAGCCACTGTGAGGTGAACAGGGACTGGCTCCAG
 CCTCTGTTGCACAGGGTCAAAGAGGACTACACGCGGGTGGTGTGCCCTGTGATCGATATCAATTAACCTGG
 ACACCTTACCTACATCGAGTCTGCCTCGGAGCTCAGAGGGGGTTTACTGGAGCTCCACTTCCAGTG
 GGAGCAGCTCTCCCAGAGCAGAAGGCTCGGCGCTGGACCCACGGAGCCCATCAGGACTCCTATCATA
 GCTGGAGGGCTCTTCGTGATCGACAAAGCTTGGTTTGATTACCTGGGAAATATGATATGGACATGGACA
 TCTGGGGTGGGGAGAAGTTTGAATCTCCTTCCGAGTGTGGATGTGCGGGGGCAGCCTAGAGATCGTCCC
 CTGCAGCCGAGTGGGGCAGCTTCCGGAAGAAGCACCCCTACGTTTTCCCTGATGGAATGCCAACAGC
 TATATAAAGAACCAAGCGGACAGCTGAAGTGTGGATGAATAACAAGCAATACTATTACGCTGCC
 GGCCATTCGCCCTGGAGAGGCCCTTCGGGAATGTTGAGAGCAGATTGGACCTGAGGAAGAATCTGCGCTG
 CCAGAGCTTCAAGTGGTACCTGGAGAATCTACCCTGAACTCAGCATCCCAAGGAGTCTCCATCCAG
 AAGGGCAATATCCGACAGAGACAGAAGTGCCTGGAATCTCAAAGCAGAACAACCAAGAAACCCAAACC
 TAAAGTTGAGCCCTGTGCCAAGGTCAAAGGCGAAGATGCAAAGTCCCAGGTATGGGCCTTACATACAC
 CCAGCAGATCCTCCAGGAGGAGCTGTGCCTGTCAGTCAACCTTGTTCCTGGCGCCCCAGTGGTTCTT
 GTCCTTTGCAAGAATGGAGATGACCGACAGCAATGGACAAAACCTGGTCCACATCGAGCAGATAGCAT
 CCCACCTCGCTCGATACAGATATGTTCCGGTATGGCACCGAGAACGGCAAGGAATCGTCGTAACCC
 ATGTGAGTCTCACTCATGAGCCAGCACTGGGACATGGTGAAGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203688 representing NM_024572
 Red=Cloning site Green=Tags(s)

MRRLTRRLVLPVFGVLWITVLLFFWVTKRKLEVPQTGPEVQTPKPSDADWDDLWDQFDERRYLNNAKKWRVG
 DDPYKLYAFNQRESERISSNRAIPDRHLRLLVYCTDLPPTSIIITFHNEARSTLLRIRSVLNRTPT
 HLIREIILVDDFSNDPDDCKQLIKLPKVKLRNNERQGLVRSRIRGADIAQGTTLTFLDSHCEVNRDWLQ
 PLLHRVKEDYTRVVPVIDIINLDTFTYIESASELRGGFDWSLHFQWEQLSPEQKARRLDPTPIRTPPI
 AGGLFVIDKAWFDYLGKYDMDMDIWGGENFEISFRVWMCSSLEIVPCSRVGHVFRKKHPYVFPDGNANT
 YIKNTRKTAEVWMDYKQYQYAAARPFALERPFNGVSRDLRKNLRCSFKWYLENIYPELSIPKESSIQ
 KGNIRQRQKCLESRQNNQETPNLKLSPCAKVKGEDAKSQVWAFYTYQILQEELCLSVITLFPGAPVVL
 VLCKNGDDRQWTKTGSHEIASHLCLDTDMFGDGTENGKEIVVNPCESSLMSQHWDMVSS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_024572

ORF Size: 1656 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_024572.2](#), [NP_078848.2](#)

RefSeq Size: 2762 bp

RefSeq ORF: 1659 bp

Locus ID: 79623

UniProt ID: [Q96FL9](#)

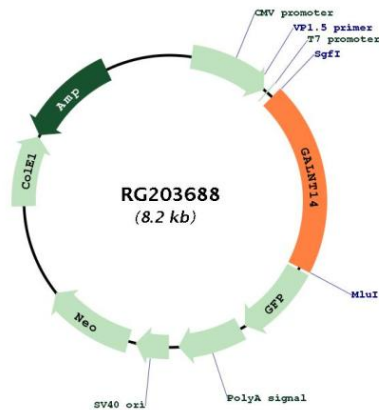
Cytogenetics: 2p23.1

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

Gene Summary: This gene encodes a Golgi protein which is a member of the polypeptide N-acetylgalactosaminyltransferase (ppGalNAc-Ts) protein family. These enzymes catalyze the transfer of N-acetyl-D-galactosamine (GalNAc) to the hydroxyl groups on serines and threonines in target peptides. The encoded protein has been shown to transfer GalNAc to large proteins like mucins. Alterations in this gene may play a role in cancer progression and response to chemotherapy. [provided by RefSeq, Jun 2016]

Product images:



Circular map for RG203688