

Product datasheet for **RC232944**

GALNT14 (NM_001253827) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT14 (NM_001253827) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GALNT14
Synonyms:	GalNac-T10; GalNac-T14; GALNT15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC232944 representing NM_001253827
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCATTTCCCATGTCTCTTGAAGAAGCTCAGTTCATTTGCAGACTCAGGTCTTTCTCAAGTCAGC
 CTTGCGACGCTGACTGGGACGACCTGTGGGACCAAGTTGATGAGCGGCGGTATCTGAATGCCAAAAAGTG
 GCGCGTTGGTGACGACCCCTATAAGCTGTATGCTTTCAACCAGCGGGAGAGTGAGCGGATCTCCAGCAAT
 CGGGCCATCCCGGACACTCGCCATCTGAGATGCACACTGCTGGTGTATTGCACGGACCTCCACCCACTA
 GCATCATCATCACCTCCACAACGAGGCCCGCTCCACGCTGCTCAGGACCATCCGCGAGTGTATAAACCG
 CACCCCTACGCATCTGATCCGGGAAATCATATTAGTGGATGACTTCAGCAATGACCCTGATGACTGTAAA
 CAGCTCATCAAGTTGCCAAGGTGAAATGCTTGCACAATATGAACGGCAAGGTCTGGTCCGGTCCCGGA
 TTCGGGGCGCTGACATCGCCAGGGCACCCTGACTTCTCGACAGCCACTGTGAGGTGAACAGGGA
 CTGGCTCCAGCCTCTGTTGCACAGGGTCAAAGAGGACTACACGGGGTGGTGTGCCCTGTGATCGATATC
 ATTAACCTGGACACCTTACCTACATCGAGTCTGCCTCGGAGCTCAGAGGGGGTGTGACTGGAGCCTCC
 ACTTCCAGTGGGAGCAGCTCTCCCAGAGCAGAAGGCTCGGCGCCTGGACCCACGGAGCCCATCAGGAC
 TCCTATCATAGCTGGAGGGCTCTTCGTGATCGACAAAGCTTGGTTTGATTACCTGGGAAATATGATATG
 GACATGGACATCTGGGTGGGAGAAGTTTGAATCTCCTCCGAGTGTGGATGTGCGGGGGCAGCCTAG
 AGATCGTCCCCTGCAGCCGAGTGGGGCAGCTCTCCGGAAGAAGCACCCCTACGTTTTCCCTGATGGAAA
 TGCCAACACGTATATAAGAACACCAAGCGGACAGCTGAAGTGTGGATGGATGAATAACAAGCAACTAT
 TACGCTGCCCGCCATTCGCCCTGGAGAGGCCCTTCGGGAATGTTGAGAGCAGATTGGACCTGAGGAAGA
 ATCTGCGCTGCCAGAGCTCAAGTGGTACCTGGAGAATATCTACCCTGAAGTCAAGTCAAGTCAAGTCAAGT
 CTCATCCAGAAGGGCAATATCCGACAGAGACAGAAGTGCCTGGAAATCTCAAAGGCAGAACAACCAAGAA
 ACCCCAAACCTAAAGTTGAGCCCTGTGCCAAGGTCAAAGGCGAAGATGCAAAGTCCCAGGTATGGCCT
 TCACATACACCCAGCAGATCCTCCAGGAGGAGCTGTGCCTGTGAGTATCACCTTGTTCCTGGCGCC
 AGTGGTCTTGTCTTTGCAAGAATGGAGATGACCGACAGCAATGGACAAAAGTGGTCCACATCGAG
 CACATAGCATCCACCTCTGCCTCGATACAGATATGTTCCGGTGTGGCACCAGAACGGCAAGGAAATCG
 TCGTCAACCCATGTGAGTCTCACTCATGAGCCAGCACTGGGACATGGTGTGAGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232944 representing NM_001253827
 Red=Cloning site Green=Tags(s)

MSFPMSLARSSVPPFADSLSSSQPSDADWDDLWDQFDERRYLNAKKWRVGDPPYKLYAFNQRESERISSN
 RAIPDTRHLRCTLVYCTDLPPTSIIITFHNEARSTLLRTIRSVLNRPHTLIREIILVDDFSNDPDDCK
 QLIKLPKVKCLRNNRQGLVRSRIRGADIAQGTTLTFLDHCEVNRDQLPLLRVKEHYTRVVCVIDI
 INLDTFTYIESASELRGGFDWSLHFQWEQLSPEQKARRLDPTPEIRTPPIIAGGLFVIDKAWFDYLGKYDM
 DMDIWGGENFEISFRVWMCSSLEIVPCSRVGHVFRKKHPYVFPDGNANTYIKNTKRTAEVWMDYKQYY
 YAARPFALERPFGNVESRLDLRKNLRCQSFKWYLENIYPELSIPKESSIQKGNIRQRQKCLESRQNNQE
 TPNLKLSPCAKVKGEDAKSQVWAFYTTQILQEELCLSVITLFPGAPVVLVLCCKNGDDRQWTKTGSHE
 HIASHLCLDTDMFGDGTENGKEIVVNPCESSLMSQHWDMVSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001253827

ORF Size: 1596 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_001253827.1](#), [NP_001240756.1](#)

RefSeq Size: 2515 bp

RefSeq ORF: 1599 bp

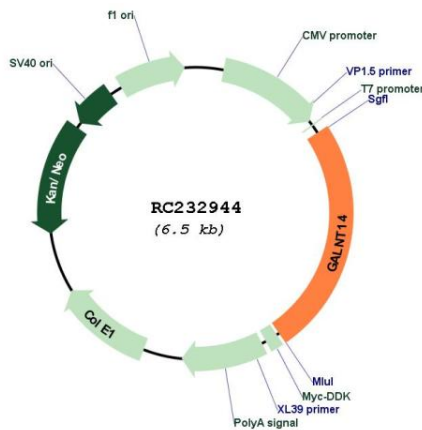
Locus ID: 79623

UniProt ID: [Q96FL9](#)

Cytogenetics: 2p23.1
Protein Families: Transmembrane
Protein Pathways: Metabolic pathways, O-Glycan biosynthesis
MW: 62 kDa
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 RC232944