

Product datasheet for **RC214166**

GALNT1 (NM_020474) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT1 (NM_020474) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GALNT1
Synonyms:	GALNAC-T1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214166 representing NM_020474
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAAAATTTGCATACTGCAAGTGGTCTAGCCACCTCCTTGATTTGGTACTCTTGGATATGTTCC
 TGCTGCTTTACTTCAGTGAATGCAACAAATGTGATGAAAAAAGGAGAGAGGACTTCCTGCTGGAGATGT
 TCTAGAGCCAGTACAAAAGCCTCATGAAGTCTCGGAGAAATGGGAAACCAGTCGTCATTCTAAAGAG
 GATCAAGAAAAGATGAAAGAGATGTTTAAATCAATCAGTTCAATTTAATGGCAAGTGAAGATGTTGCAC
 TCAACAGATCTTTACCAGATGTTAGGTTAGAAGGGTGTAAAACAAAGGTGTATCCAGATAATCTTCTAC
 AACAAAGTGGTATTGTTTTCCACAATGAGGCTTGGAGCACACTTCTGCGAACTGCCATAGTGCATT
 AATCGCTACCAAGACACATGATAGAAGAAATGTTCTAGTAGATGATGCCAGTGAAGAGACTTTTTGA
 AAAGCCTTTAGAGAGTTATGTAAAAAATAAAAGTACCAGTTCATGTAATTCGAATGGAACAACGTTCC
 TGGATTGATCAGAGCTAGATTAAGAGGAGCTGCTGTCTAAAGGCCAAGTATCACCTTCTGGATGCC
 CATTGTGAGTGTACAGTGGGATGGCTGGAGCCTCTCTGGCCAGGATCAAACATGACAGGAGAACAGTGG
 TGTGTCCCATCATCGATGTGATCAGTGTGATACTTTTGGTACATGGCAGGCTCTGATATGACCTATGG
 TGGTTCAACTGGAAGCTCAATTTTCGCTGGTATCCTGTTCCCAAGAGAAAATGGACAGAAGGAAAGGT
 GATCGGACTCTTCTGTGAGGACACCTACCATGGCAGGAGGCCTTTTTTCAATAGACAGAGATTACTTTC
 AGGAAATTGGAACATATGATGCTGGAATGGATATTTGGGGAGGAGAAAACCTAGAAATTTCTTTAGGAT
 TTGGCAGTGTGGAGAACTTTGGAAATGTTACATGCTCATGTTGGACATGTGTTTCGAAAGCTACA
 CCTTACAGTTTCCAGGAGGCACAGGCGAGATTATCAATAAAAAAACAGACGACTTGCAGAAGTGTGGA
 TGGATGAATTCAGAATTTCTTCTATATAATTTCTCCAGGTGTTACAAAGGTAGATTATGGAGATATAT
 GTCAAGAGTTGGTCTAAGACACAACTACAATGCAAACTTTTTCTGGTACCTAGAGAATATATATCCT
 GATTCTCAAATCCACGCACTATTTCTATTGGGAGAGATACGAAATGTGGAACGAATCAGTGTCTAG
 ATAACATGGCTAGAAAAGAGAATGAAAAAGTTGGAATTTTTAATTGCCATGGTATGGGGGTAATCAGGT
 TTTCTCTATACTGCCAACAAAGAAATAGAACAGATGACCTTTGCTTGGATGTTTCCAACTTAATGGC
 CCAGTTACAATGCTCAAATGCCACCACCTAAAAGGCAACCACTCTGGGAGTATGACCCAGTGAAATTA
 CCCTGCAGCATGTGAACAGTAATCAGTGCCTGGATAAAGCCACAGAAGAGGATAGCCAGGTGCCAGCAT
 TAGAGACTGCAATGGAAGTCGGTCCAGCAGTGGCTTCTCGAAACGTCACCTGCCAGAAATATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214166 representing NM_020474
 Red=Cloning site Green=Tags(s)

MRKFAYCKVVLATSLIWVLLDMFLLLYFSECNKDEKKERGLPAGDVLEPVQKPHEGPGEMGKPVVIPKE
 DQEKMKEMFKINQFNLMASEMIALNRSPLDVRLEGCKTKVYPDNLPTTSVVIVFHNEAWSTLLRTVHSVI
 NRSRPHMIEEIVLVDDASERDFLKRPLESYVKKLKVPHVIRMEQRSLIRARLKGAAVSKGQVITFLDA
 HCECTVGWLEPLLARIKHDRRTVVCPIIDVISDDTFEYMGSDMTYGGFNWKLNFRWYPVPQREMDRRKG
 DRTLPVRTPTMAGGLFSIDRDYFQEIGTYDAGMDIWGGENLEISFRIWQCGGTLEIVTCSHVGHVFRKAT
 PYTFPGGTGQIINKNNRRLAEVWMDKFNFFYIISPGVTKVDYGDISSRVGLRHKLQCKPFQSWYLENIYP
 DSQIPRHYFSLGEIRNVEITNQCLDNMARKENEKVGIFNCHGMGGNQVFSYANKEIRTDCLDVSCLNG
 PVTMLKCHHLKGNQLWEYDPVKLTQHVNSNQCLDKATEEDSQVPSIRDCNGSRSQQWLLRNVTLPKIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6708_c02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_020474

ORF Size: 1677 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_020474.4](#)

RefSeq Size: 3778 bp

RefSeq ORF: 1680 bp

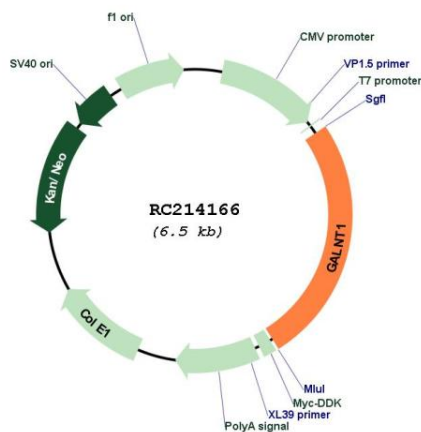
Locus ID: 2589

UniProt ID: [Q10472](#)

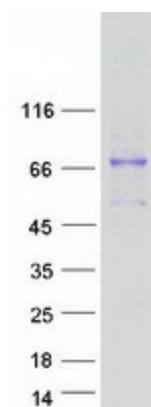
Cytogenetics: 18q12.2
Domains: RICIN, Glycos_transf_2
Protein Families: Secreted Protein, Transmembrane
Protein Pathways: Metabolic pathways, O-Glycan biosynthesis
MW: 64 kDa

Gene Summary: This gene encodes a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes. GalNAc-Ts initiate mucin-type O-linked glycosylation in the Golgi apparatus by catalyzing the transfer of GalNAc to serine and threonine residues on target proteins. They are characterized by an N-terminal transmembrane domain, a stem region, a luminal catalytic domain containing a GT1 motif and Gal/GalNAc transferase motif, and a C-terminal ricin/lectin-like domain. GalNAc-Ts have different, but overlapping, substrate specificities and patterns of expression. Transcript variants derived from this gene that utilize alternative polyA signals have been described in the literature. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC214166



Coomassie blue staining of purified GALNT1 protein (Cat# [TP314166]). The protein was produced from HEK293T cells transfected with GALNT1 cDNA clone (Cat# RC214166) using MegaTran 2.0 (Cat# [TT210002]).