

Product datasheet for **RC212219**

GALNT3 (NM_004482) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT3 (NM_004482) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GALNT3
Synonyms:	GalNAc-T3; HFTC; HFTC1; HHS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC212219 representing NM_004482
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGCTCACCTAAAGCGACTAGTAAAATTACACATTAAGACATTACCATAAAAAGTTCTGGAAGCTTG
GTGCAGTAATTTTTTTCTTTATAATAGTTTTGGTTTTAATGCAAAGAGAAGTAAGTGTTCAATATCCAA
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CAGTGTCAATAAGTTTTTCATAATGAAGCGTGGTCCACGTTGCTTAGAACTGTCCACAGTGTGCTCTAT
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AGCCTCTATGTCTGGATGTTGGAGAAAACAATCAAGGAGGCAAACCATTAATTATGTATACATGTCATGG
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CAAAATGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212219 representing NM_004482
 Red=Cloning site Green=Tags(s)

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MAHLKRLVKLHIKRHYHKKFWKLGAIVFFFIIIVLVMQREVSVQYSKEESRMERNMKNKNKMLDLMLEAV
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KERGEAKHCFNAFASDRISLHRDLGPDTRPPECIEQKFKRCPLPTTSVIVFHNEAWSTLLRTHVSVLY
SSPAILLKEIILVDDASVDEYLHDKLDEYVKQFSIVKIVRQREKGLITARLLGATVATAETLTFDLAHC
ECFYGWLEPLLARIAENYTA VVSPDIASIDLNTFEFNKPSYGSNHNRGNFDWLSLFGWESLPDHEKQRR
KDEYTIKPTTFAGGLFISISKEYFEYIGSYDEEMEIWGGENIEMSFVRVWQCGGQLEIMPCSVVGHVFRSK
SPHSFPKGTQVIARNQVRLAEVWMDEYKEIFYRRNTDAKIVKQKAFGLDSKRFEIKHRLQCKNFYWL N
NIYPEVYVPDLNPVISGYIKSVGQPLCLDVGENNQGKPLIMYTC HGLGGNQYFEYSAQHEIRHNIQKEL
CLHAAQGLVQLKACTYKGHKTVVTGEQIWEIQDQLLYNPF LKMCLSANGEHPSLVSCNPSDPLQKWILS
QND
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4551_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004482

ORF Size: 1899 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_004482.4](#)

RefSeq Size: 3874 bp

RefSeq ORF: 1902 bp

Locus ID: 2591

UniProt ID: [Q14435](#)

Cytogenetics: 2q24.3

Domains: RICIN, Glycos_transf_2

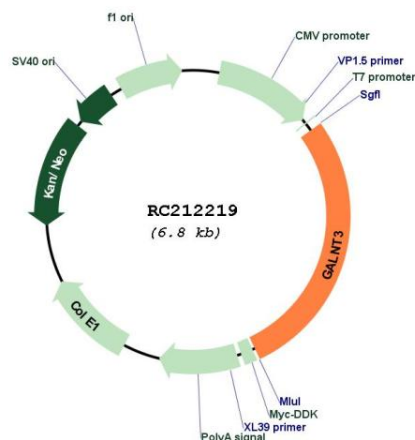
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

MW: 72.4 kDa

Gene Summary: This gene encodes UDP-GalNAc transferase 3, a member of the GalNAc-transferases family. This family transfers an N-acetyl galactosamine to the hydroxyl group of a serine or threonine residue in the first step of O-linked oligosaccharide biosynthesis. Individual GalNAc-transferases have distinct activities and initiation of O-glycosylation is regulated by a repertoire of GalNAc-transferases. The protein encoded by this gene is highly homologous to other family members, however the enzymes have different substrate specificities. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212219