

Product datasheet for **RC207728**

GALNT6 (NM_007210) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNT6 (NM_007210) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GALNT6
Synonyms:	GALNAC-T6; GalNAcT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207728 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGCTCCTCCGCAGACGCCACATGCCCTGCGCTGGCCATGGTGGGCTGCGCCTTTGTCTTCC
 TCTTCTCCTGCATAGGGATGTGAGCAGCAGAGAGGAGGCCACAGAGAAGCCGTGGCTGAAGTCCCTGGT
 GAGCCGGAAGGATCACGTCCTGGACCTCATGCTGGAGGCCATGAACAACCTTAGAGATTCATGCCCAAG
 CTCCAATCAGGGCTCCAGAAGCCAGCAGACTCTGTTCTCCATAAACAGTCTGCCTCCCTGGTTCT
 ATACCCAGCTGAAGTGAAGCCCTTCTGGGAACGGCCACCACAGGACCCCAATGCCCTGGGGCAGATGG
 AAAAGCATTTCAGAAGAGCAAGTGGACCCCTGGAGACCCAGGAAAAGGAAGGCTATAAGAAGCAC
 TGTTTCAATGCCTTGGCAGCGACCGGATCTCCCTGCAGAGGTCCTGGGGCCAGACACCCGACCACCTG
 AGTGTGTGGACCAGAAGTCCGGCGCTGCCCCCACTGGCCACCACCAGCGTGATCATTGTGCCACAA
 CGAAGCCTGGTCCACACTGCTGCGAACAGTGTACAGCGTCTACACACCACCCCTGCCATCTTGCTCAAG
 GAGATCATACTGGTGGATGATGCCAGCAGAGGAGCACCTAAAGGAGAAGCTGGAGCAGTACGTGAAGC
 AGCTGCAGGTGGTGGGGTGGTGCAGGAGGAGCGGAAGGGGCTGATCACCGCCGGCTGCTGGGGGC
 CAGCGTGGCACAGGCGGAGGTGCTCACGTTCTGGATGCCCACTGTGAGTGCTTCCACGGCTGGCTGGAG
 CCCCTCCTGGCTCGAATCGCTGAGGACAAGACAGTGGTGGTGGAGCCAGACATCGTACCATCGACCTTA
 ATACTTTTGTAGTTCGCCAAGCCCGTCCAGAGGGGCAGAGTCCATAGCCGAGGCAACTTTGACTGGAGCCT
 GACCTTCGGCTGGGAAACACTTCTCCACATGAGAAGCAGAGGCGCAAGGATGAAACCTACCCCATCAA
 TCCCGACGTTTGTGGTGGCCTTCTCCATCTCCAAGTCTACTTTGAGCACATCGGTACCTATGATA
 ATCAGATGGAGATCTGGGAGGGGAGAAGTGGAAATGTCTTCCGGGTGTGGCAGTGTGGGGCCAGT
 GGAGATCATCCCCTGCTCTGTCGTAGGCCATGTGTTCCGGACCAAGAGCCCCACACCTTCCCAAGGGC
 ACTAGTGTATTGCTCGCAATCAAGTGCCTGGCAGAGGCTGGATGGACAGCTACAAGAAGATTTTCT
 ATAGGAGAAATCTGCAGGACGAAAGATGGCCCAAGAGAAATCCTTCGGTGACATTTTCGGAACGACTGCA
 GCTGAGGGAACAAGTGCCTGTCAACTTTTCTGGTACCTGCACAATGTCTACCCAGAGATGTTTGT
 CCTGACCTGACGCCACCTTCTATGGTGCATCAAGAACCTCGGCACCAACCAATGCCTGGATGTGGGTG
 AGAACAACCGGGGGGAAGCCCTCATCATGTACTCTGCCACGGCCTTGGCGCAACCAAGTACTTTGA
 GTACAAACTCAGAGGGACCTTCGCCACAACATCGAAAGCAGCTGTGTCTACATGTCAGCAAGGGTGT
 CTGGGCCCTTGGGAGCTGTCACTTCACTGGCAAGAATAGCCAGGTCCTCAAGGACGAGGAATGGGAATTGG
 CCCAGGATCAGCTCATCAGGAACCTCAGGATCTGGTACCTGCATCCAGGACAAAAAGCCAGCCAT
 GGCCCTGCAATCCCAGTGACCCCATCAGTTGTGGCTCTTTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207728 protein sequence
 Red=Cloning site Green=Tags(s)

MRLLRRRHMPRLRLAMVGCFAVFLFLLHRDVSSREEATEKPWLKSLVSRKDHVLDLMLLEAMNNLRDSMPK
 LQIRAPEAQQTLSINQSCLPGFYTPAELKPFWERPPQDPNAPGADGKAFQKSKWTPLETQEKEEGYKHH
 CFNAFASDRISLQRSLGPDTRPPECVDQKFRRCPLATTSVIIVFHNEAWSTLLRVTYVSLHTTPAILLK
 EIIILVDDASTEHLKEKLEQYVKQLQVVRVVRQEERKGLITARLLGASVAQAEVLTFLDAHCECFHGWLE
 PLLARIAEDKTVVSPDIVTIDLNTFEFAKPVQGRVHSRGNFDWSLTFGWETLPPHEKQRRKDETYPIK
 SPTFAGGLFSISKSYFEHIGTYDNQMEIWGGENVEMSFVWQCGGLEIIPCSVVGHVFRKSPHTFPKG
 TSVIARNQVRLAEVWMSYKIFYRRNLQAAKMAQEKSFGDISERLQLREQLHCHNFSWYLNHVYPFMFV
 PDLTPTFYGAIKNLGTNQCLDVGENNRGGKPLIMYSCHLGGNQYFEYTTQRDLRHNIQKQLCLHVSKGA
 LGLGSCHFTGKNSQVPKDEEWELAQDQLIRNSGSGTCLTSQDKKPAMAPCNPSDPHQLWLFV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6337_h10.zip
Restriction Sites: SgfI-MluI
Cloning Scheme:



ACCN: NM_007210
ORF Size: 1866 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.

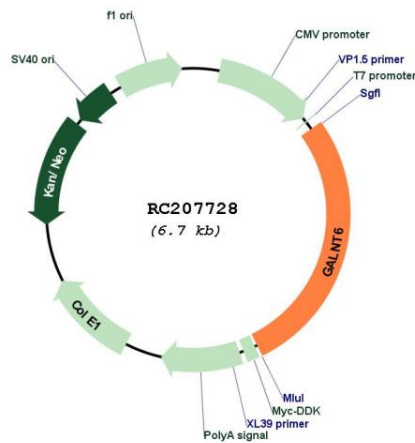
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_007210.4](#)
RefSeq Size: 4520 bp

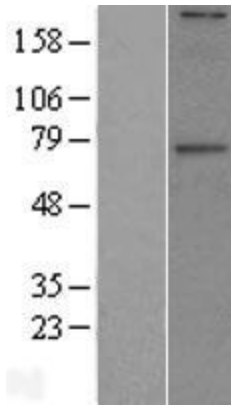
RefSeq ORF: 1869 bp
Locus ID: 11226
UniProt ID: [Q8NCL4](#)
Cytogenetics: 12q13.13
Domains: RICIN, Glycos_transf_2
Protein Families: Transmembrane
Protein Pathways: Metabolic pathways, O-Glycan biosynthesis
MW: 71.2 kDa

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. The encoded protein is capable of glycosylating fibronectin peptide in vitro and is expressed in a fibroblast cell line, indicating that it may be involved in the synthesis of oncofetal fibronectin. [provided by RefSeq, Jul 2008]

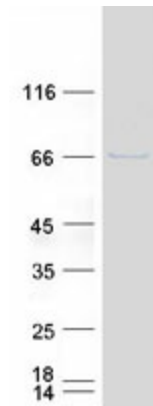
Product images:



Circular map for RC207728



Western blot validation of overexpression lysate (Cat# [LY416125]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207728 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GALNT6 protein (Cat# [TP307728]). The protein was produced from HEK293T cells transfected with GALNT6 cDNA clone (Cat# RC207728) using MegaTran 2.0 (Cat# [TT210002]).