

## Product datasheet for **RC226011**

### **GALNT9 (NM\_001122636) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GALNT9 (NM_001122636) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GALNT9
Synonyms:	GALNAC-T9; GALNACT9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC226011 representing NM\_001122636  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGTGGCCAGGAAGATCCGAACCTTCTGACGGTGAACATCCTGGTGTTCGTGGGCATCGTCTGT  
 TCTCCGTGTAAGTCCGCTGCAGGGCCGCTCCAGGAGCTCGTGCATCGTGAGCGGCGACCCGGGT  
 GCGCAGCCGACCGCAAGGTGGCAGCTGGGGACCGTGAGGCCATCTGCAGCGCTGGACCACCTG  
 GAGGAGGTGGTCTACAACAGCTCAACGGCCTTCCCAAGCCATCGGCCTGGTGGAGGGCCAGGAGCC  
 TGGGCCAGGGTGGCTTGGCGCCACCCTGCGTGTGACGGCCAGGAGCGGAAGGCAAGTATGAGGAGTA  
 CGGCTACAACGCTCAGCTCAGCGACCGCATCTCCCTCGATCGGAGCATCCCCGACTACCGGCCAGAAA  
 TGCAGACAGATGAGCTACGCCAGGACCTGCCAGGTCTCCGTGGTCTTCTCATCTTCGTCATGAGGCGC  
 TGTGGTCTCCTGCGCTCCGTGCACAGCGTGGTCAACACACGCCCTCCAGCTCCTCAAGGAGGTCT  
 CCTGGTGGACACAACAGTGAACGTTGAACTCAAGTCAATCTGGACCAGTACGTCACAAGCGGTAC  
 CAGGCCCTCGTGAAGATTGTCCGCAACAGCCGGCGGGAAGGACTGATCCGCGCGCGCTGCAGGGCTGGA  
 AGGCGGCCACCGCCAGTCTCGGCTTCTTTGATGCCACGTCGAGTTCAACACGGGCTGGGCCGAGCC  
 CGCACTGTCCGGATCCGAGAGGACCGCGTCGCATCGTGTGCCAGCCATCGACAACATCAAGTACAGC  
 ACGTTTGGAGTGCAGCAGTATGCGAACGCCGCCATGGCTACAACGGGGCTCTGGTGCATGTACATCA  
 TCCCCCGCAGGACTGGTGGACCGCGGACGAGTACAGCCCATCAGGACCCAGCCATGATCGGCTG  
 CTCTTCGTAGTGGACCGGAGTACTTCGGAGACATTGGGCTGCTGGACCCGGCATGGAGGTGTATGGC  
 GCGGAGAACGTAGAAGTGGCATGAGGGTGTGGCAGTGTGGCGGACGATGGAGGTGCTGCCCTCCC  
 GCGTGGCCACATCGAGCGCACCAAGCCCTACAACAACGACATTGACTACTATGCCAACGCCAACGC  
 CCTGCGCGCCCGAGGTGGATGGATGACTTCAAGTCCACGTGTACATGGCCTGGAACATCCCCATG  
 TCGAACCCAGGGGTGGACTTCGGGGACGTGCTGAGAGGCTGGCCCTGCGTCAGAGGCTGAAGTGTGCA  
 GCTTCAAGTGGTACCTGGAGAACGTGTACCCGGAGATGAGGGTCTACAACAACACCCTCACGTACGGAGA  
 GGTGAGAAACAGCAAAGCCAGTGCCTACTGTCTGGACCAGGGAGCGGAGGACGGCGACCGGGCGATCCTC  
 TACCCCTGCCACGGATGTCTCCAGCTGGTGCCTACAGCGCTGATGGACTGCTGCAGCTGGGCCTC  
 TGGGCTCCACAGCCTTCTGCTGACTCCAAGTGTCTGGTGGATGACGGCACGGGCCGATGCCACCCCT  
 GAAGAAGTGTGAGGATGTGGCGCGCAACACAGCGGCTGTGGGACTTACCCAGAGTGGCCCCATTGTG  
 AGCCGGGCCACGGCCGCTGCCTGGAGGTGGAGATGTCCAAGATGCCAACTTTGGGCTCCGGCTGGTGG  
 TACAGAGGTGCTCGGGCAGAAGTGGATGATCAGAACTGGATCAACACGCACGGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC226011 representing NM\_001122636  
 Red=Cloning site Green=Tags(s)

MAVARKIRLLTVNILVFGIVLFSVYCRQLQGRSQELVRIVSGDRRVRSRHAKVGTLDREAILQRLDHL  
 EEVYVYNQLNGLAKPIGLVEGPGGLGQGLAATLRDDGQEAEGKYEEYGYNAQLSDRISLDRSIPDYRPRK  
 CRQMSYAQDLQVSVVIFVNEALSVILRSVSVNHTPSQLLKEVILVDDNSDNVELKFNLDQYVKNRY  
 PGLVKIVRNSRREGLIRARLQGWKAATAPVVGFFDAHVEFNTGWAEPALSRIREDRRIVLPAIDNIKYS  
 TFEVQYANAAGHYNWGLWCMYIIPPQDWLDRGDESAPIRTPAMIGCSFVVDREYFGDIGLLDPGMEVYG  
 GENVELGMRVWQCGGSMEVLPCSRVAHIERTRKPYNNIDYYAKRNALRAAEVWMDDFKSHVYMAWNIPM  
 SNPGVDFGDVSRALRQLKCRSFKWYLENVYPEMRVYNNLTLYGEVRNSKASAYCLDQGAEDGDRAIL  
 YPCHGMSSQLVRYADGLLQLGPLGSTAFLPDSKCLVDDGTGRMPTLKKCEDVARPTQLWDFTSQSPIV  
 SRATGRCLEVEMSKDANFGLRLVVQRCSGQKWMIRNWIKHARH

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8069\\_c11.zip](https://cdn.origene.com/chromatograms/mk8069_c11.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001122636

ORF Size: 1809 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\\_001122636.2](#)

RefSeq ORF: 1812 bp

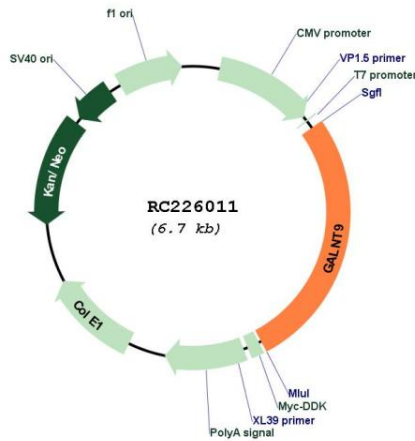
Locus ID: 50614

UniProt ID: [Q9HCQ5](#)

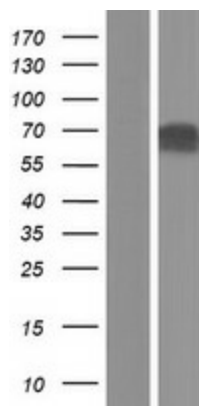
**Cytogenetics:** 12q24.33  
**Protein Families:** Transmembrane  
**Protein Pathways:** Metabolic pathways, O-Glycan biosynthesis  
**MW:** 68.2 kDa

**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. This gene is expressed specifically in the brain, with highest expression in the cerebellum. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC226011



Western blot validation of overexpression lysate (Cat# [LY426540]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226011 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).