

## Product datasheet for **RR205695**

### **Galnt1 (NM\_024373) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Galnt1 (NM_024373) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galnt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR205695 representing NM\_024373  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAAAATTTGCATATTGCAAGTGGTTCTAGCCACCTCCTTGGTTTGGTACTCTTGGATATGTTCC  
 TGCTGCTTTACTTCAGTGAATGCAACAAATGTGAAGAGAAGAAGGAGCGAGGGCTTCTGCTGGGATGT  
 TCTAGAGCTGGTGCAGAAGCCTCACGAAGTCTCGGAGAATGGGAAAACCAAGTCGTCATTCTTAAAGAG  
 GATCAGGAAAAGATGAAAGAGATGTTCAAAATCAACCAGTTCAACCTAATGGCGAGTGAGATGATTGCAT  
 TCAACAGATCCTTACCAGACGTGAGGCTAGAGGGGTGTAACAAAGTGTACCCAGATAGCCTTCTCTAC  
 GACAAGCGTGGTATTGTCTTTCACAATGAGGCGTGGAGCACCTCCTGCGAACAGTCCACAGTGCATT  
 AACCGCTACCAAGACACATGATAGAAGAGATTGTTCTGTAGACGATGCCAGCGAAAGAGACTTTTTGA  
 AAAGACCTCTAGAGATTATGTGAAAAGCTTAAAGTCCAGTTCATGTAATCGAATGGAACAACGTTT  
 TGGGTTGATCAGAGCTAGATTAAGAGGCTGCTGTGTCAAAGGCCAAGTGATCACCTTCTTAGATGCT  
 CACTGCGAGTGCACAGTAGGGTGGCTGGAGCCTCTGTTAGCCCGATCAAACATGACAGGAGGACAGTGG  
 TGTGTCCTATCATCGATGTGATCAGTGTGACACTTTTGTAGTACATGGCGGGCTCTGATATGACCTATGG  
 TGGATTCAACTGGAAGCTCAATTTCCGTTGGTATCCTGTTCCCAACGAGAAATGGACAGAAGGAAAGGT  
 GACCGGACTCTTCTGTGAGAACACCTACAATGGCTGGAGGCCTGTTTTCAATAGACAGAGATTACTTTC  
 AGGAAATTGGAACATATGATGCTGGAATGGATATTTGGGGAGGAGAAAACCTAGAAATTTCTTTAGGAT  
 TTGGCAGTGTGGAGGACTCTGGAATAGTGACGTGCTCCACGTTGGCCATGTGTTTCGGAAAGCTACG  
 CCGTACACGTTCCCGGTGGCAGGGGCAGATCATCAACAAGAATAACAGACGGCTCGCGGAGGTGTGGA  
 TGGATGAATCAAGAATTTCTTACATAATTTCTCCAGGTGTTACAAAGGTAGATTATGGTGATATATCC  
 ATCAAGAGTCGGTCTGAGACATAAACTACAGTGAAGCCTTTCTCTTGGTACCTAGAAAATATTTATCCC  
 GATTCTCAAATTCCTCGTCACTATTTCTATTGGGAGAGATACGAAATGTGGAACAAATCAATGTCTAG  
 ATAACATGGCTAGAAAAGAGAATGAAAAGGTTGGAATTTTTAATTGTCATGGTATGGGAGGCAATCAGGT  
 TTTCTTTACTGCAACAAAGAAATAGAACAGATGACCTTTGTTGGACGTTTCCAACTTAATGGC  
 CCAGTTACCATGCTCAAATGCCACCACATAAAAGGCAACCAGCTCTGGGAGTATGACCCAGTGAAATTA  
 CCCTGCAGCATGTGAACAGTAACCAGTGCCTGGATAAAGCCACAGAAGAGGACAGCCAGGTGCCAGCAT  
 CAGAGACTGCACTGGAAGCCGGTCCAGCAGTGGCTTCTCGAAATGTCACCTTCCAGAAATATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR205695 representing NM\_024373  
 Red=Cloning site Green=Tags(s)

MRKFAYCKVVLATSLVWVLLDMFLLLYFSECNKCEEKKEKRLPAGDVLELVQKPHEGPGEMGKPVVIPKE  
 DQEKMKEMFKINQFNLMASEMIAFNRSLPDVRLGCKTKVYPDSLPTTSVVIVFHNEAWSTLLRTHVSVI  
 NRSPRHMIEEIVLVDDASERDFLKRPLESYVKKLKVPHVIRMEQRSLIRARLKGAAVSKGQVITFLDA  
 HCECTVGWLEPLLARIKHDRRTVVCPIIDVISDDTFEYMAGSDMTYGGFNWKLNFRWYPVPQREMDRRKG  
 DRTLPVRTPTMAGGLFSIDRDYFQEIGTYDAGMDIWGGENLEISFRIWQCGGTLEIVTCSHVGHVFRKAT  
 PYTFPGGTGQIINKNNRRLAEVWMDEFKNFFYIISPGVTKVDYGDISSRVGLRHKLQCKPFSWYLENIYP  
 DSQIPRHYFSLGEIRNVEITNQCLDNMARKENEKVGIFNCHGMGGNQVFSYTANKEIRTDLCLDVSKLNG  
 PVTMLKCHHLKGNQLWEYDPVKLTQHVNSNQCLDKATEEDSQVPSIRDCTGSRSQWLLRNVTLP EIF

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_024373

**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\\_024373.1](#), [NP\\_077349.1](#)

**RefSeq Size:** 1838 bp

**RefSeq ORF:** 1680 bp

**Locus ID:** 79214

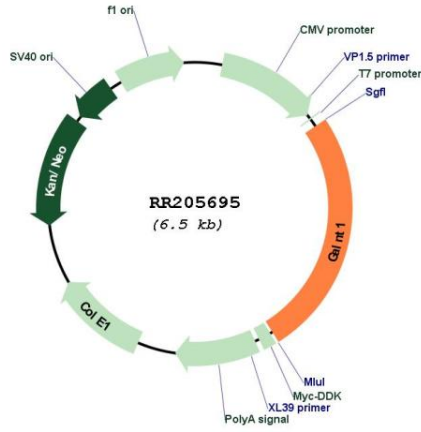
**UniProt ID:** [Q10473](#)

**Cytogenetics:** 18p12

**MW:** 64.2 kDa

**Gene Summary:** catalyzes the transfer of N-acetylgalactose to protein serine and threonine residues in the first step of O-glycan biosynthesis [RGD, Feb 2006]

**Product images:**



Circular map for RR205695