

## Product datasheet for **MR208869**

### Galnt1 (NM\_001160404) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt1 (NM_001160404) Mouse 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:**

>MR208869 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAAAATTTGCATATTGCAAGTGGTTCTAGCCACCTCCTTGGTTTGGTACTCTTGGATATGTTCC  
 TGCTGCTTTACTTCAGTGAATGCAACAAATGTGAAGAGAAGCAGGAGAGAGGACTTCCTGCTGGTGACGT  
 TCTAGAGCTAGTGCAGAAACCTCATGAAGTCTGGAGAATGGGAAACCAGTCGTCATTCCGAAAGAG  
 GATCAAGAAAAGATGAAAGAGATGTTTAAACCAATCAGTTCACTTAATGGCAAGTGAGATGATTGCAC  
 TCAACAGATCCTTACCAGATGTGAGGTTAGAGGGGTGTAACAAAGGTGATCCAGATAACCTTCTAC  
 AACAAAGTGGTGATTGTTTTCCACAATGAGGCATGGAGCACACTTCTGCGAACAGTCCATAGTGCATT  
 AATCGCTCGCAAGACATATGATAGAAGAGATTGTTCTGTAGATGATGCCAGTAAAGAGACTTTTTGA  
 AAAGACCTCTAGAGATTATGTAAAAAAGTAAAGTCCCGTTCATGTAATCGAATGGAGCAGCGCTC  
 TGGGTTGATCAGAGCTAGATTGAAAGGAGCTGCTGTGTCCAGAGGCCAAGTATCACCTTCTTAGATGCT  
 CACTGTGAATGCACCGCAGGGTGGCTGGAGCCTCTGTTGGCCCGATCAAACATGACAGGAGGACAGTGG  
 TGTGTCCTATCATCGACGTGATCAGTGTGACACTTTCGAGTACATGGCCGGCTCTGACATGACCTATGG  
 TGGCTTCAACTGGAAGCTCAATTTTCGTTGGTATCCTGTTCCCGAGCAGAAAATGGACAGACGAAAAGGT  
 GACAGGACTCTTCTGTGAGAACACCTACAATGGCTGGAGGCCTTTTTCAATAGACAGAGATTACTTTC  
 AGGAAATTGGAACATACGATGCTGGAATGGATATTTGGGGAGGAGAAAACCTAGAAAATTTCAATTAGGAT  
 TTGGCAGTGTGGAGAACTTTGGAAATAGTGACATGCTCCCATGTTGGTCATGTGTTTCGGAAAGCTACA  
 CCTTACACATTTCCAGGAGGGACAGGGCAGATTATCAATAAGAAATACAGGCGGCTTGCAGAAGTATGGA  
 TGGATGAATCAAGAATTTCTTCTATATAATTTCTCCAGGTGTTACAAAGGTAGATTATGGAGATATATC  
 ATCAAGACTTGGCCTAAGACGTAACACTACAATGCAAACTTTCTCTTGGTACCTAGAAAATATTTACCCT  
 GATTCTCAAATTCCTCGTCACTATTTCTCATTGGGAGAGATACGAAATGTGGAACAAATCAGTGTCTAG  
 ATAACATGGCTAGAAAAGAGAATGAAAAGGTTGGAATCTTAAATGTCATGGTATGGGAGGTAATCAGGT  
 TTTCTCTACACTGCCAACAAAGAAATAGAACAGACGACCTTTGTTGGACGTTTCCAACTTAATGGC  
 CCAGTACCATGCTCAAATGCCACCACATAAAAGGCAACCAGCTCTGGGAGTATGACCCAGTGAAATTA  
 CCCTGCAGCATGTGAACAGCAATCAGTGCCTGGATAAAGCCACAGAGGAGGACAGCCAGGTGCCAGCAT  
 TAGAGACTGCACTGGAAGCCGGTCCAGCAGTGGCTTCTCGAAACGTCACCTTCCAGAAATATTC

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>MR208869 protein sequence  
 Red=Cloning site Green=Tags(s)

MRKFAYCKVVLATSLVWVLLDMFLLLYFSECNKCEEKQERGLPAGDVLELVQKPHEGPGEMGKPVVIPKE  
 DQEKMKEMFKTNQFNLMASEMIALNRSLPDVRLGCKTKVYPDNLPTTSVVIVFHNEAWSTLLRTHSVI  
 NRSPRHMIEEIVLVDDASERDFLKRPLESYVKKLKVPHVIRMEQRSLIRARLKGAAVSRGQVITFLDA  
 HCECTAGWLEPLLARIKHDRRTVVCPIIDVISDDTFEYMAGSDMTYGGFNWKLNFRWYPVPQREMDRRKG  
 DRTLPVRTPTMAGGLFSIDRDYFQEIGTYDAGMDIWGGENLEISFRIWQCGGTLEIVTCSHVGHVFRKAT  
 PYTFPGGTGQIINKNNRRLAEVWMDEFKNFFYIISPGVTKVDYGDISSRLGLRRKLQCKPFSWYLENIYP  
 DSQIPRHYFSLGEIRNVEITNQCLDNMARKENEVGIFNCHGMGGNQVFSYTANKEIRTDLCLDVSKLNG  
 PVTMLKCHHLKGNQLWEYDPVKLTQHVNSNQCLDKATEEDSQVPSIRDCTGSRSSQWLLRNVTLP EIF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001160404

**ORF Size:** 1680 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\\_001160404.1](#), [NP\\_001153876.1](#)

**RefSeq Size:** 3908 bp

**RefSeq ORF:** 1680 bp

**Locus ID:** 14423

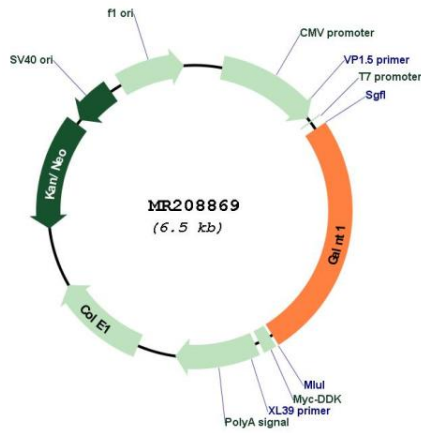
**UniProt ID:** [O08912](#)

**Cytogenetics:** 18 A2

**MW:** 64.2 kDa

**Gene Summary:** Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Has a broad spectrum of substrates for peptides such as EA2, Muc5AC, Muc1a, Muc1b and Muc7. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208869