

## Product datasheet for **MR218121**

### Galnt13 (NM\_173030) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt13 (NM_173030) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galnt13
Synonyms:	A230002A12; A230020F20; BB182356
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR218121 representing NM\_173030  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGAGATTTGTCTACTGCAAGTGTTCTGGCCACTTCTCTGATGTGGGTGCTTGTGTATGTCTTCT  
 TACTCCTGTACTTCAGCGAGTGAACAAGTGTGATGACAAGAAGGAGAGATCCCTGCTGCCTGCGCTGAG  
 GGCTGTTATTTCAAGAAACCAAGAGGTCCAGGAGAAATGGGAAAGGCTGTGCTTATCCAAAAGATGAC  
 CAAGAGAAAATGAAAGAGTTGTTAAAAATCAATCAGTTTAACTCATGGCCAGTGACTTGTATCGCACTTA  
 ACCGAAGTCTGCCGGATGTGAGATTAGAAGGATGCAAGACTAAAGTCTACCCTGATGAACTTCCAAACAC  
 AAGTGTAGTCATTGTGTTCCATAATGAAGCTTGGAGCACTCTACTTAGAACTGTCTATAGTGTCAAAAT  
 CGCTCCCCACACTACCTGCTCTGAGGTCATCTGGTTGATGATGCCAGTGAAGAGATTTTCTCAAGT  
 TGACATTAGAGAACTACGTGAAAACCTTTAGAAGTCCAGTGAAGATTATCAGGATGGAAGAGCGCTCTGG  
 GTTAATACGCGCCCGTCTCCGAGGAGCAGCAGCTTCAAAGGACAGGTCATAACTTTTCTGGATGCACAC  
 TGGCAGTGCACCTTAGGATGGCTGGAGCCCTTCTGGCGAGAATAAAGGAAGACAGGAAAACAGTTGTGT  
 GCCCGATCATTGATGTTATTAGTGTGATACGTTTGTGATACATGGCTGGGTGAGACATGACTTATGGTGG  
 TTTCAACTGGAAGCTAAATTTCCGATGGTATCCTGTCCCTCAAAGAGAAATGGATAGGAGAAAAGGAGAC  
 AGGACATTACCTGTCAGGACCCCTACTATGGCTGGTGGCCTATTTTCTATTGACAGAAACTACTTTGAAG  
 AGATAGGAACTTACGATGCAGGAATGGATATCTGGGGTGGAGAGAATCTTGAAATGTCTTTTAGGATCTG  
 GCAATGTGGAGGTTCTTTGGAGATTGTGACTTGTCTCATGTCCGTCATGTTTTTCGAAAGGCAACTCCA  
 TACACATTCCTGGTGGCACTGGCCATGTCATTAACAAGAACAACAGAAGACTGGCAGAAGTGTGGATGG  
 ATGAATTCAAAGATTTCTTATATCATATCCCCAGGTGTTGTCAAAGTGGATTATGGAGATGTGTGTCAGT  
 CAGAAAAACACTGAGGGAAAATCTGAAGTGTAAAGCCTTTTTCTTGGTACCTGGAACATCTATCCGGAC  
 TCCAGATCCCAAGACGTTATTACTCACTTGGTGTGATACGAAATGTTGAGACCAATCAATGCTTAGATA  
 ACATGGGCCGCAAGAAAATGAAAAAGTGGGTATCTTCAACTGTCACGGCATGGGAGGTAACCAGGTGTT  
 TTCTTACTGCTGACAAAGAAATCCGAACTGACGACTTGTGCCTGGATGTATCCAGACTCAGTGGCCCT  
 GTAATCATGCTAAAATGCCACCACATGAGAGGAAATCAGCTGTGGGAATATGACGCTGAGAGACTCACTT  
 TGAGACATGCTAACAGTAACCAATGTCTTGATGAACCTTCTGAAGAAGACAAAATGGTGCCTACCATGCA  
 GGACTGCAGTGGCAGCAGATCCCAACAATGGCTGCTGAGGAACATGACCTTGGGGACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR218121 representing NM\_173030  
 Red=Cloning site Green=Tags(s)

MRRFVYCKVVLATSLMWVLDVFLLLYFSECNKDDKERSLLPALRAVISRNIQEGPGEMGKAVLIPKDD  
 QEKMKELFKINQFNLMASDLIALNRSLPDVRLGCKTKVYPDELNPNTSVVIVFHNEAWSTLLRVTYVSVIN  
 RSPHYLLSEVILVDDASERDFLKLTLNENYKTLVVPVKIIRMEERSGLIRARLRGAAASKGQVITFLDAH  
 CECTLWLEPLLARIKEDRKTVCPIIDVISDDTFEYMGSDMTYGGFNWKLNFRWYVVPQREMDRRKGD  
 RTLTPVRTPTMAGGLFSIDRNYFEEIGTYDAGMDIWGGENLEMSFRIWQCGGSLEIVTCSHVGHVFRKATP  
 YTFPGGTGHVINKNNRRLAEVWMDFFKDFYIISPVVVVDYGDVSVRKTLENLCKKPF SWYLENIYPD  
 SQIPRRYYSLGEIRNVTNQCLDNMGRKENEKVGIFNCHGMGGNQVF SYTADKEIRTDLCLDVSRLSGP  
 VIMLCKHHMRGNQLWEYDAERLTLRHANSNQCLDEPSEEDKMVPTMQDCSGSRSQQWLLRNMTLGT

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9015\\_d01.zip](https://cdn.origene.com/chromatograms/mm9015_d01.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_173030

**ORF Size:** 1668 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\\_173030.2](#), [NP\\_766618.2](#)

**RefSeq Size:** 6966 bp

**RefSeq ORF:** 1671 bp

**Locus ID:** 271786

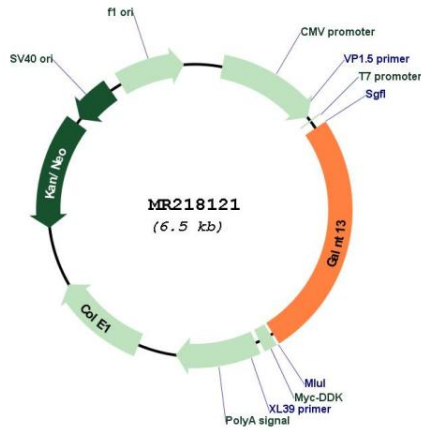
**UniProt ID:** [Q8CF93](#)

**Cytogenetics:** 2 C1.1

**MW:** 64.4 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 much stronger activity than GALNT1 to transfer GalNAc to mucin peptides, such as Muc5Ac and Muc7. Able to glycosylate SDC3. Probably responsible for the synthesis of Tn antigen in neuronal cells.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR218121