

Product datasheet for **MR224332**

Galnt16 (NM_001081421) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt16 (NM_001081421) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galnt16
Synonyms:	5730405L21Rik; AI415388; Galnt11; mpp-GalNAc-T16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224332 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGAAGATCCGCGCCAATGCCATCGCCATCCTGACCGTAGCCTGGATCCTGGCACTTTCTACTACT
 TATGGCAGGACAACCGAGCCATGCAGCATCCTCCAGCGCCGCGCGCCAGAGGGCCGCGGGAGACC
 AGAGCAGCTCCGCGAGGACCGCACCATTCGCTCATTGTGACAGGAACACCCTCAAAGGGCTTTGATGAG
 AAGGCGTACCTGTGAGCAAGCAGCTGAAGCCTGGAGAGGACCCATACAGACAACATGCCTTCAACCAAC
 TGGAGAGTGACAACTGAGCTCAGACCGACCCATCAGGGACACCCGCCATTACAGTTGCCATCCTTGTC
 CTATTCCTCGGACCTGCCGGCCACCAGTGTATCATCACCTTCCACAACGAGGCTCGCTCCACACTCCTG
 CGCACAGTGAAGAGCGTCTGAACCGAAGTCTGCCAGCTTGATCCAGGAGATCATTTTAGTGGATGACT
 TCAGTTCCGGATCCTGAAGACTGTTTGTCTGACCAGGATCCCCAAGTCAAGTGCCTTCGCAATGACAA
 ACGGGAAGGACTGATCCGGTCCCGGTTCTGTTGGGCGAGATGTGGCAGGAGCCACAGTTCTCACTTTTCTG
 GATAGTCACTGTGAGGTGAATGTGGAGTGGCTGCAGCCAATGCTGCAGCGGGTATGGAGGACCACACCC
 GTGTGGTGAAGCCATCATCGACGTCATCAGCTTGGACAATTTGCCTACCTTGACGATCTGCAGATCT
 TCGAGGAGGGTTTACTGGAGTCTGCATTTCAAGTGGGAGCAGATCCCGTGGAGCAGAAGATGACCCGG
 ACTGACCCCACTAAACCCATCAGGACACCTGTTATAGCTGGAGGAATCTTCGTGATTGACAAGTCTGGT
 TTAACCATCTGGGAAAGTATGATGCCAGATGGACATCTGGGGAGGAGAGAATTTGAAGTCTCCTTCAG
 GGTATGGATGTGTGGTGGCAGCTTGGAGATTGTGCCCTGCAGCCGAGTGGGCCATGTCTTCAGGAAGCGG
 CATCCCTACAACCTCCCGAGGGCAATGCCCTCACCTATATCAGGAATACAAAGCGAAGCGCAGAGGTGT
 GGATGGACGAGTACAAACAGTATTATTATGAGGCCCGGCCCTCAGCCATCGGGAAGGCTTTGGCAGTGT
 GGCCACGCGGATCGAGCAGAGGAAGAAGATGGACTGTAAGTCTTCCGCTGGTACCTGGAGAAGCTCTAT
 CCCGAGCTCACTGTCCCGTGAAGGAAGTCTCCCTGGTGTCTTAAGCAAGGAGTTAAGTCTTAGAAT
 CCCAAGGCCAGAACACAGCTGGTACCTCCTGCTTGAATGGGGATATGCAGAGGGTCAAGCAAGAGCCC
 ACCACCAGCCAGGCATGGTTATTTAGCGATCACCTTATCCAGCAGCAGGGGAAATGCCTGGCTGCCACC
 TCCACCTTAATGTCTTCCCTGGATCCCGAGTCACTGCAAACGTGTAACCCTAAAGAAGGCAAGCAGA
 AATGGAGAAGGAAAGGATCTTTTATCCAGCATTAGTCAAGCGGCTCTGCCTGGAGACAAAGCCTGCCCA
 GCTGGTGACCAGCAAATGTCAGACAGATGCCAGGCCAGCAATGGCAGCTGCTGCCACACACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224332 protein sequence
 Red=Cloning site Green=Tags(s)

MRKIRANAIAILTVAWILGTFYYLWQDNRAHAASSSRGAQRAGGRPEQLREDRTIPLIVTGTPSKGFDE
 KAYLSAKQLKPGEDPYRQHAFNQLSDKLSDDRPIRDTRHYSCPSLSYSSDLPATSVIITFHNEARSTLL
 RTVKSVLNRTPASLIQEIIIVDDFSSDPEDCLLLTRIPKVKCLRNDKREGLIRSRVRGADVAGATVLTFL
 DSHCEVNVWLQPLQRMEDHTRVVSPIIDVISLDFAYLAASADLRGGFDWSLHFKWEQIPLEQKMT
 TDPTKPIRTPVIAGGIFVIDKSWFNHLGKYDAQMDIWGGENFELSFRVVMCGGSLEIVPCSRVGHVFRKR
 HPYNFPEGNALTYIRNTRKTAEVWMDYKQYYEARPSAIGKAFGSVATRIEQRKKMDCKSFRWYLENVY
 PELTVPVKEVLPVVIKQGVNCLSQGQNTAGDLLLGMGICRGSASPPPAQAWLFSDDL IQQQGKCLAAT
 STLMSPPGSPVILQTCNPKEGKQKWRKGSFIQHSVSGLCLETKPAQLVTSKQTDAAQAQQWQLPHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001081421

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_001081421.1](#), [NP_001074890.1](#)

RefSeq Size: 3920 bp

RefSeq ORF: 1677 bp

Locus ID: 108760

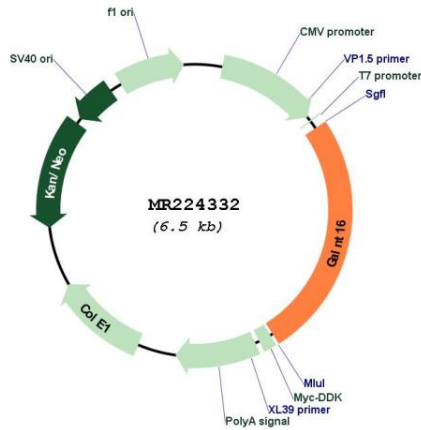
UniProt ID: [Q9J161](#)

Cytogenetics: 12 C3

MW: 62.9 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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224332