

## Product datasheet for **MG224332**

### Galnt16 (NM\_001081421) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt16 (NM_001081421) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galnt16
Synonyms:	5730405L21Rik; AI415388; Galnt1; mpp-GalNAc-T16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224332 representing NM\_001081421  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGAAGATCCGCGCCAATGCCATCGCCATCCTGACCGTAGCCTGGATCCTGGCACTTTCTACTACT  
 TATGGCAGGACAACCGAGCCATGCAGCATCCTCCAGCGCCGCGCGCCAGAGGGCCGCGGGAGACC  
 AGAGCAGCTCCGCGAGGACCGCACCATTCGCTCATTGTGACAGGAACACCCTCAAAGGGCTTTGATGAG  
 AAGGCGTACCTGTGAGCAAGCAGCTGAAGCCTGGAGAGGACCCATACAGACAACATGCCTTCAACCAAC  
 TGGAGAGTGACAACTGAGCTCAGACCGACCCATCAGGGACACCCGCCATTACAGTTGCCATCCTTGTC  
 CTATTCCTCGGACCTGCCGGCCACCAGTGTATCATCACCTTCCACAACGAGGCTCGCTCCACACTCCTG  
 CGCACAGTGAAGAGCGTCTGAACCGAAGTCTGCCAGCTTGATCCAGGAGATCATTTTAGTGGATGACT  
 TCAGTTCCGGATCCTGAAGACTGTTTGTCTGACCAGGATCCCCAAGTCAAGTGCCTTCGCAATGACAA  
 ACGGGAAGGACTGATCCGGTCCCGGTTCTGGGGCAGATGTGGCAGGAGCCACAGTTCTCACTTTTCTG  
 GATAGTCACTGTGAGGTGAATGTGGAGTGGCTGCAGCCAATGCTGCAGCGGGTATGGAGGACCACACC  
 GTGTGGTGGAGCCCATCATCGACGTCATCAGCTTGGACAATTTGCCTACCTTGACGATCTGCAGATCT  
 TCGAGGAGGGTTGACTGGAGTCTGCATTTCAAGTGGGAGCAGATCCCGTGGAGCAGAAGATGACCCGG  
 ACTGACCCCACTAAACCCATCAGGACACCTGTTATAGCTGGAGGAATCTTCGTGATTGACAAGTCTCGT  
 TTAACCATCTGGGAAAGTATGATGCCAGATGGACATCTGGGGAGGAGAGAATTTTGAAGTCTCCTTCAG  
 GGTATGGATGTGTGGTGGCAGCTTGGAGATTGTGCCCTGCAGCCGAGTGGGCCATGTCTTCAGGAAGCGG  
 CATCCCTACAACCTCCCGAGGGCAATGCCCTCACCTATATCAGGAATACAAAGCGAAGCGCAGAGGTGT  
 GGATGGACGAGTACAAACAGTATTATTATGAGGCCCGGCCCTCAGCCATCGGGAAGGCCTTTGGCAGTGT  
 GGCCACGCGGATCGAGCAGAGGAAGAAGATGGACTGTAAGTCTTCCGCTGGTACCTGGAGAACGTCTAT  
 CCCGAGCTCACTGTCCCGTGAAGGAAGTCTCCCTGGTGTCTTAAGCAAGGAGTTAAGTCTTAGAAT  
 CCCAAGGCCAGAACACAGCTGGTACCTCCTGCTTGAATGGGGATATGCAGAGGGTCCAGCAAGAGCCC  
 ACCACCAGCCAGGCATGGTTATTTAGCGATCACCTTATCCAGCAGCAGGGGAAATGCCTGGCTGCCACC  
 TCCACCTTAATGTCTTCCCTGGATCCCGAGTCACTGCAAACGTGTAACCCTAAAGAAGGCAAGCAGA  
 AATGGAGAAGGAAAGGATCTTTTATCCAGCATTAGTCAAGCGGCTCTGCCTGGAGACAAAGCCTGCCCA  
 GCTGGTACCAGCAAATGTCAGACAGATGCCAGGCCAGCAATGGCAGCTGCTGCCACACACA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG224332 representing NM\_001081421  
 Red=Cloning site Green=Tags(s)

MRKIRANAIAILTVAWILGTFYYLWQDNRAHAASSSRGAQRAGGRPEQLREDRTIPLIVTGTPSKGFDE  
 KAYLSAKQLKPGEDPYRQHAFNQLSEDKLSSDRPIRDTRHYSCPSLSYSSDLPATSVIITFHNEARSTLL  
 RTVKSVLNRPASLIQEIIILVDDFSSDPEDCLLLTRIPKVKCLRNDKREGLIRSRVRGADVAGATVLTFL  
 DSHCEVNVEWLQPMLQRVMEDHTRVSPIIDVISLDFAYLAASADLRGGFDWSLHFKWEQIPLEQKMR  
 TDPTKPIRTPVIAGGIFVIDKSWFNHLGKYDAQMDIWGGENFELSFRVVMCGGSLEIVPCSRVGHVFRKR  
 HPYNFPEGNALTIRNTRKTAEVWMDYKQYYEARPSAIGKAFGSVATRIEQRKKMDCKSFRWYLENVY  
 PELTVPVKEVLPGVIKQGVNCLSQGQNTAGDLLLGMGICRGSASPPPAQAWLFSDDLIIQQQKCLAAT  
 STLMSPPGSPVILQTCNPKEGKQKWRKGSFIQHSVSGLCLETKPAQLVTSKQTDAAQWQWQLPHT

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001081421
<b>ORF Size:</b>	1674 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001081421.1</a> , <a href="#">NP_001074890.1</a>
<b>RefSeq Size:</b>	3920 bp
<b>RefSeq ORF:</b>	1677 bp
<b>Locus ID:</b>	108760
<b>UniProt ID:</b>	<a href="#">Q9J161</a>
<b>Cytogenetics:</b>	12 C3
<b>Gene Summary:</b>	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]