

## Product datasheet for **MG209509**

### Galnt18 (NM\_173739) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt18 (NM_173739) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galnt18
Synonyms:	2900011G21Rik; BC024988; Galntl4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209509 representing NM\_173739  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGTGTACCAGGAAGACAAAACCTTTGGTGTCCACTTGCCTGATCCTAAGCGGCATGACCAACATCA  
 TATGCCTGCTGTACGTGGGCTGGGTACCAACTACATCGCCAGCGTGTATGTGCGGGGAGGAGCCAGT  
 GCCCGACAAGAAGCTGGAGGAAGATAAAGGGGACACCCTGAAAATTATCGAGCGGCTGGACCACTTGGAG  
 AATGTCATCAAACAGCATATCCAAGAGGCTCCTGCCAAGCCTGAGGAGGCAGAGGCCGAGCCCTTACCG  
 ACTCCTCCCTGTTTGCACACTGGGGCAGGAGCTCAGCCCGAAGGCCGGCGTGTGGCCCTGAAGCAGTT  
 CCAGTACTACGGCTACAACGCCTACCTCAGTGACCGGCTACCCCTCGACCGGCCCTGCCAGACCTCAGA  
 CCCAGTGGGTGCCCAACCTCTCGTTCGCCGACAGCCTACCTGAGGTGAGCATCGTGTTCATCTTCGTCA  
 ACGAGGCGCTCTCAGTGTCTCTCGTTCATCCACTCGGCCATGGAACGCAGCCATCACACCTGCTCAA  
 GGAGATCATCCTGGTGGACGACAACAGCAGCAACGAGGAGCTCAAAGAAAAGCTGACTGAATATGTGGAC  
 AAGGTGAACGGCCAGAAGCCAGGCTTCAAAAGTTGTGCGGCACAGCAAGCAGGAAGGCCCTCATCCGCT  
 CCAGAGTCAGCGGCTGGAGGGCAGCCACAGCCCTGTGGTGGCAGTGTTCGATGCCACGTGGAGTTCAA  
 TGTGGGCTGGGCGGAACCAAGTCCACCCGATCAAGGAAAACCGAAACGGATCATTTCACCATCTTTT  
 GATAACATCAAATATGACAACCTTGGAGTAGAAGAGTACCCGCTAGCCGCCAAGGCTTTGACTGGGAGC  
 TGTGGTCCGCTACCTAAACCCACCAAGGCTGGTGGAAAGTAGAGAATCCACAGCCCAATCAGGAG  
 CCCTGCCCTCATTGGCTGTTTATTGTGGACCGGCACTTTCGAGGAGATTGGCCTGCTGGACGAAGGC  
 ATGGAGGCTATGGAGGGGAGAATGTGGAGCTGGGATCAGGGTGAAGTATTTCTCACACAGGGCTGA  
 GCTCAGCTCCCATGATGGTATGGCAGTGTGGCGGAGTGTGGAGTCTGCCCTGCTCTCGGATTGCCCA  
 CATCGAGCGAGCTCAAAAGCCCTACACAGAGGACCTCACTGCCACGTCCGCAGAAATGCCCTCAGGGTA  
 GCTGAAGTCTGGATGGATGAATCAAAAGTCAATGTCTACATGGCATGGAACATACCACAAGAGGACTCAG  
 GGATTGACATCGGGGACATCACCGCACGAAGGCTCTGAGGAAGCAGCTGCAGTGAAGACCTTCAGGTG  
 GTACCTGGTCACTGTGTACCCAGAGATGAGGATGTACTCTGACATTATCGCCTATGGAGTCTGCAGAA  
 TCCCTGAAGACTGATTTGTCTTGTATCAGGGCCAGATACAGAGAATGTCCCATCGTGTACATATGCC  
 ATGGGATGACACCCAGAATGTGTACTACACAAGCAGCCAGCAGATCCACGTGGGATCCTGAGCCCCAC  
 TGTGGATGACGATGACAACCGGTGTCTGGTGGACGTCAACAGCCGCCACGTCTCATCGAGTGCAGTTAC  
 GCCAAGGCCAAGAGGATGAAGCTGCACTGGCAGTTCTCCAGGGAGGCTCCATCCAGAACCGAAGTCCA  
 AGCGCTGCCTGGAGCTGCAAGAGAACAGTGACATGGAGTTTGGTTTCCAGCTGGTCTTCAGAAGTGCTC  
 GGGACAACACTGGACTATCACC AATGTCCTGAGGAGCCTGGTGTCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209509 representing NM\_173739  
 Red=Cloning site Green=Tags(s)

MVCTRKTKLVSTCVILSGMTNIIICLLYVGVWNTNVIASVYVRGQEPVPDKKLEEDKGDTLKIIERLDHLE  
 NVIKQHIQEAPAKPEEAEAEPTDSSLFAHWGQEL SPEGRRVALKQFQYYGYNAYLSDRLPLDRPLPDLR  
 PSGCRNLSFPDSLPEVSIVFIFVNEALSVLLRSIHSAMERTPSHLLKEIILVDDNSSNEELKEKLEYVD  
 KVNQKPGFIKVRHKSQEGLIRSRVSGWRAATAPVVALFDAHVEFNVGWAEPVL TRIKENRKRIISPSF  
 DNIKYDNFEIEEYPLAAQGF DWELWCRYLNPPKAWWKENSTAPIRSPALIGCFIVDRQYFEEIGLLDEG  
 MEVYGGENVELGIRVSEISHTGLSSAPMMVWQCGGSVEVLPCSRIAHIERAHKPYTEDLTAHVRRNALRV  
 AEVWMDEFKSHVYMAWNI PQEDSGIDIGDITARKALRKQLQCKTFRWYLVSVYPEMRMYSDIIAYGVLQN  
 SLKTDLCLDQGPDTENVPIVYICHGMTPQNVYYTSSQQIHVGILSPTVDDDDNRCLVDVNSRPRLEICSY  
 AKAKRMKLHWQFSQGGSIQNRKSKRCLELQENSDFEFGFLVLQKCSGQHWITNVLRSLSV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI



<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_173739.4</a>
<b>RefSeq Size:</b>	2595 bp
<b>RefSeq ORF:</b>	1869 bp
<b>Locus ID:</b>	233733
<b>UniProt ID:</b>	<a href="#">Q8K1B9</a>
<b>Cytogenetics:</b>	7 E3- F1
<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]