

## Product datasheet for **MC201323**

### Galnt11 (NM\_144908) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt11 (NM_144908) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Galnt11
Synonyms:	A430075I06Rik; A1648252; E430002F06Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC021504 sequence for NM\_144908  
 CCACGCGTCCGCCGAAGGCTGCGTGTGCGTGGGCCGCGTCCGCGCCGCGGCTCGTGCGGCTCGGCCGG  
 GCTGTGGCGGGAGCGGAGATGCCGACGCCCGTGCCTGGAGCGCCGCTATCCCGGCTGCGGGTGTGCGG  
 GAAACTGAAAAATGGCCTTTGAGCTATGCTAGGTCTATAATGGGAAGCATCACAGTTTCGATATTTTGT  
 TGGGTGCCTTTTACATCTGCTACCTGGACAGTTCTGCTTTTCATTTATTTAACTTCAGTGAAGTGACT  
 CAGCCCCTTAGGAATGTGCCATCAAGGGGTCTGGGCCACGGGCCATTTCCAAAAAATTCACCCAC  
 GTTTCACCTCGAGTCCAGGTCGGGTATTAGATCCACAGTTCAAAGCAAACAGAATCGACCGTTTGATGAA  
 TAATCACATTGAAGATCCAGATAAAGGCCCTCTCAAAATCTTCTCTGAACTAGGTATGATTTTCAATGAA  
 CGTGATCAGGAATTGAGAGACCTGGGCTACCAGAAGCACGCCTTTAATATGCTCATTAGTAACCGCTTGG  
 GATACCACAGAGACGTGCCGGACACCAGGAATGCAGAGTGTAGGAGGAAGTCTACCCGACTGACCTGCC  
 AACTGCTAGCATTGTCATCTGTTTCTACAATGAAGCCTTTTCTGCCTTACTGCGGACTGTGCACAGTGT  
 GTGGACCCGACACCGGCCACCTTCTTCATGAGATCATCCTTGTGGATGACAGCAGTGACTTTGATGATT  
 TAAAAGGAGAAGTGGATGAGTACATCCAAAGATACCTGCCTGCAAAGTCAAGGTATAAGAAATATGAA  
 GCGCGAGGGATTGATCCGAGGACGAATGATCGGAGCAGCCACGCTACAGGAGAAGTCTGGTGTTCCTG  
 GACAGCCACTGTGAAGTGAATGTGATGTGGTTACAGCCCTGCTGGCCATTATCCTTGAGGACCCACACA  
 CAGTGGTGTGCCCGTGATTGACATCATAGTGCAGACACACTCGCTTACAGCTCATCCCAAGTAGTTCCG  
 GGGAGGTTTCAACTGGGGGCTGCACTTCAAGTGGGATCTAGTTCCCGTATCTGAGCTGGGAGGCCCTGAC  
 GGCGCCACGGCCCAATAAGGTCACCTACAATGGCTGGAGGCTTGTGGCATGAACAGACAGTATTTCA  
 ATGATCTTGGACAGTATGACAGTGGCATGGATATCTGGGGAGGAGAAAATCTGGAATCTCATTTCCGGAT  
 CTGGATGTGTGGCGGCAAGCTCTTATCCTCCCTTGTCTCAAGAGTAGGACACATTTTCCGAAAAAGGCGA  
 CCGTACGGATCTCCGGAAGGCCAGGACACCATGACACACAACCTCCCTGAGACTGGCACATGTCTGGCTGG  
 ATGAGTACAAGGACAAATATTTTCTTAAGACCTGATTTGAAGAACAAAAGCTTCGGGAATATCAGTGA  
 GCGTGTGAATTGAGGAAGAACTGGGCTGTGAGTCAAGTGGTATTTGGATAATATTTACCCTGAG  
 ATGCAGATACCTGGCCCGAATGCCAAACCTCAGCAGCCCGTTCTCATCAACAGAGGACCCCAAGCGCCCA  
 GAGTCTGCAGCGTGGAAGGCTCTACCCTTGCAGACCAACAAATGCCTGGTGGCCAGGCGCGCTCCAG  
 CCAGAAAGGAGGCTAGTGTGCTTAAGACCTGTGACTACGGAGACCCAACTCAGGTCTGGATTTATAAT  
 GAAGACCATGAATTGATTTTAAACAACCTCCTTTGCCTTGACATGTCAGAAACTCGCTCATCGGATCCAC  
 CCCGACTCATGAAGTCCATGGGTGAGGAGTCCAGCAGTGGACCTTTGGGAAGAACAACCGGCTGTA  
 CCAAGTGTCCGTTGGGCAGTGCCTGAGAGTTATGGACCTGATGGATCAGAAGGGTACGTTGGCATGGCG  
 ATCTGCGATGGCTCCTCCTCTCAACAGTGGCGTCTAGAAGTTAAAGGTGGGCCCTGGCTGGACACAACA  
 TAATTCACCTGGTTTTGTCATGCCTGCCATAAATCAAGGTGCTTTAAGGTTGCTGACTGCAGCAGACAAG  
 AACCTTGGTGGAGGGCGACCATCTCAGGAGCGCCACTGGGATTTGGGTTTACTTCCGAGCTGCTGTTAAG  
 GGATCTTGTATCCAGGGAAAACAGAAAATAATTCTAAAGAGTTGGGTCTACAGAGTATAAACCCAGG  
 AAGTAGGCATTTGATTCATATTTATGTTTTTCGCATTCTCCCTTGGAGATGGAATTGTTTCTGTCCAAT  
 CAGGAAGTGTACAATTTCTTTCATAGAGGACTTCATAAGAGATTTTTTTCTATTTCTATCATGCCTA  
 ATGTTCCAAATAGATTTTAAAACTGGTTGAGTGCATATTACTTTTAGCTTCAGAAGATATCATGTATAT  
 TTAAGAGGCATTTAACTATTATAAATATTTTGTGACTTAATATTGTCTGTCTACATTAATAAAGGAT  
 CTTTTTGATCATTTAACTAGGAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_144908
- Insert Size:** 1827 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:** [BC021504](#), [AAH21504](#)

**RefSeq Size:** 2557 bp

**RefSeq ORF:** 1827 bp

**Locus ID:** 231050

**UniProt ID:** [Q921L8](#)

**Cytogenetics:** 5 A3

**Gene Summary:** Polypeptide N-acetylgalactosaminyltransferase that catalyzes the initiation of protein O-linked glycosylation and is involved in left/right asymmetry by mediating O-glycosylation of NOTCH1. O-glycosylation of NOTCH1 promotes activation of NOTCH1, modulating the balance between motile and immotile (sensory) cilia at the left-right organiser (LRO). Polypeptide N-acetylgalactosaminyltransferases catalyze the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Displays the same enzyme activity toward MUC1, MUC4, and EA2 than GALNT1. Not involved in glycosylation of erythropoietin (EPO) (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.