

## Product datasheet for **MR209330**

### Galnt10 (NM\_134189) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt10 (NM_134189) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galnt10
Synonyms:	AU018154; C330012K04Rik; GalNAc-T9; GalNAc-T10; Galnt9; ppGaNTase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209330 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGGCGCAAAGAGAAGCGGCTTTGACGGCGGTGGCTCTGGCTCTGGCGGCCCTGGTCTGCTGCCCA  
 ACGTGGGGCTTTGGGCTCTGTACCGCGAGCGGCAGCCGACGGCAGCCCTGGGGATTGGGGCGCGGT  
 GGCCCCGCGCGGTTTCAGGAATTACACAGTCGACAAAAAAGACATTTTTCTTGGGAGCTGAACAAAGG  
 CTGAAGGACTGGCATAACAAGGAGGCTATCAGGAGGGACGCACAGCGCTAGGATATGGAGAACAGGGGA  
 AGCCTTACCCCATGACCGATGCCGAGAGAGTGGACCAGGCGTACCGGAAAAATGGATTTAACATCTACGT  
 CAGTGATAAAATCTCCCTGAATCGCTCTCTCCCGATATCCGGCACCCAACTGTAAACAGCAAGCTCTAC  
 CTGGAGACGCTCCCCAACACCAGCATCATATCCCTTCCACAACGAGGGCTGGTCTCTACTGCTGCGCA  
 CTGTTACAGCGTGTCAACCGCTCGCCCCAGAGCTAGTGGCGGAGATTGTGTTGGTCGATGACTTCAG  
 TGATCGAGAGCACCTGAAGAAGCCCTGGAGGACTACATGGCCCTTTTCCCAGCGTGAGGATTCTCCGG  
 ACCAAGAAACGGGAAGGCCTGATAAGGACCCGAATGCTGGGGCATCAGCTGCCACCGGAGATGTCGTCA  
 CTTTCTTAGATTCACACTGTGAAGCCAACGTCAACTGGCTCCCCCTTGTCTGACCGCATTGCTCGGAA  
 CCGGAAGACCATCGTGTGCCAATGATCGATGTCATCGACCACGATGACTCCGGTATGAGACTCAGGCT  
 GGGGACGCCATGCGTGGTGCCTTCGACTGGGAAATGTATTACAAACGGATCCCAATCCCTCCAGAGCTGC  
 AGAAGGCTGACCCAGTGACCCATTTGAGTCTCCCGTGTGGCTGGAGGGTTGTTGCTGTGGACCGGAA  
 ATGTTCTGGGAGTTGGTGGCTATGACCCTGGCTTGGAGATCTGGGGAGGAGAGCAGTATGAGATCTCC  
 TTCAAGGTGGATGTGTGGGGCCGCATGGAGGACATCCCTGCTCCAGAGTGGCCACATCTACAGGA  
 AGTATGTGCCCTACAAGTCCCTGCCGGAGTCAAGTGGCCGGAACCTGAAGCGAGTGGCAGAGGATG  
 GATGGATGAATACGCAGAATACATCTACCAGCGCAGGCCGAGTACCGCCACCTCTCAGCTGGAGATGTC  
 GTGGCCAGAAAAAGCTCCGAGTCTCCCTCAACTGTAAGAGCTTCAAGTGGTTTATGACCAAAATTGCCCT  
 GGGACCTGCCAAGTTCTACCCACCCGTGGAACCTCCGGCTGCGGCATGGGGGAGATTGCAATGTGGG  
 CACAGGACTGTGCACAGACACGAAGCTTGGCACACTGGGCTCCCCACTGAGGCTCGAGACCTGCATCCGG  
 GGCCGAGGCGAGGCTGCTTGAACAGTATGCAGGTCTTTACCTTACCTGGCGGGAGGACATCCGGCCTG  
 GAGACCCTCAGCACACCAAGAAGTTTGTCTCGACGCTGTCTCCACACCAGCCAGTACCCTCTACGA  
 CTGCCACAGCATGAAGGGCAACCAGCTGTGAAATACCGAAGGACAAGACGCTGTACCACCTGTGAGC  
 GGCAGCTGCATGGACTGCAGCGAGAGTACCACAGGGTCTTCATGAACACCTGCAATCCCTCCTCCCTCA  
 CCCAGCAGTGGCTCTTTGAACACACCAACTCGACGGTCTTAGAGAATTTCAACAAGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209330 protein sequence  
 Red=Cloning site Green=Tags(s)

MRRKEKRLQAVALLAALVLLPNVGLWALYRERQPDGSPGGLGAAVAPAAVQELHSRQKKTFFLGAEQR  
 LKDWHNKEAIRRDAQRVGYGEQKPYPMPTDAERVDQAYRENGFNIVSDKISLNRSLPDIRHPNCNSKLY  
 LETLPNTSIIIPFHNEGWSLLRTVHVSVLRSPPELVAEIVLVDDFSDREHLKKPLEDYMALFSPVRILR  
 TKKREGLIRTRMLGASAATGDVVTFLDSHCEANVNWLPPLLDRIARNRKTIVCPMIDVIDHDDFRYETQA  
 GDAMRGAFDWEMYKRIPIPELQKADPSDPFESPMAGGLFAVDRKWFELGGYDPLEIWGGEQYEIS  
 FKVWMCGRMEDIPCSRVGHIYRKYVPYKVPAGVSLARNLKRVAEVMDEYAEYIYQRRPEYRHL SAGDV  
 VAQKCLRVS LNCKSFKWFMKIAWDLPKFYPPVEPPAAAWGEIRNVGTGLCTDTKLGTLGSPLRLET CIR  
 GRGEAAWNSMQVFTFTWREDIRPGDPQHTKFCF DAVSHTSPVTLYDCHSMKGNQLWKYRKDKTL YHPVS  
 GSCMDCSESDHRVFMNTCNPSSLTQQWLF EHTNSTVLENFKN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_134189

ORF Size: 1812 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\\_134189.2](#), [NP\\_598950.2](#)

RefSeq Size: 4725 bp

RefSeq ORF: 1812 bp

Locus ID: 171212

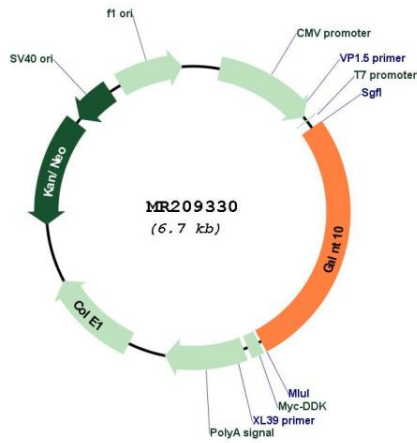
UniProt ID: [Q6P9S7](#)

**Cytogenetics:** 11 B1.3

**MW:** 69.1 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 activity toward Muc5Ac and EA2 peptide substrates (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209330