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Product datasheet for MC219224

Galnt12 (NM_172693) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt12 (NM_172693) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Galnt12
Synonyms:	9130206E10; A630062B03Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC219224 representing NM_172693
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGGGGCGTGCGGTGAGGAGGCGCTGCCCGCGGGGGCTGCGGCGCGGCCGGGAGGCGTTGCTGGCAC
TGCTGGCCCTGGCAGGGCTGGGCGCGCTGCTGCGGGCTCGAAGCAGGTCGGGGACGGTGGACCCGGGACC
CCCGCGGACTCCTCTCCCCGGGCGTCACGAGCCAGTGCTGCCCAGGCCGCCGCTGCCCGCCGATGCTCTG
GGAGCGCATGGGGAGGCGGTGCGGCTGCAGCTGCAGGGCGAGGAGCTGCGGCTGCAGGAGGAGAGCGTGA
AGCAGCACCAGATCAACATCTATCTGAGCGACCGTATCTCGCTGCACCGCCGACTGCCCGAGCGCTGGAA
CCCTCTGTGCAGAGAGGTGAAATACGATTATGATAACCTGCCCAAGACTTCTGTTGTCATAGCATTTTAT
AATGAAGCCTGGTCCACACTCCTTCGGACAGTTTACAGTGTTCTTGAGACCTCCCCTGACATCCTGCTGG
AGGAGGTCATTCTGGTAGATGACTACAGCGACAGAGAGCACCTAAAGGAACGCTTGGCCAACGAGCTGTC
ACAGCTCCCCAAGGTGCGCCTGATCCGTGCTAGCAGGAGAGAGGGCCTAGTGCGAGCCCGGCTACTGGGA
GCCTCTGCGGCCAGGGGCGAAGTGCTGACCTTCCTAGACTGTCACTGTGAATGTCATGAGGGGTGGCTGG
AGCCTCTGCTGCAGAGGATCCACGAGAAGGAGTCCGCAGTCGTGTGCCCTGTTATCGATGTGATTGACTG
GAACACCTTTGAGTACCTGGGCAACTCGGGAGAGCCGCAGATTGGCGGCTTTGACTGGCGGCTGGTATTC
ACGTGGCACGTGGTTCCCCAGCGGGAGCGGCAGTCGATGCGGTCGCCGATCGATGTTATCAGGTCTCCAA
CTATGGCTGGGGGCCTGTTTGCTGTGAGTAAGAGATATTTTGATTATCTGGGGTCTTACGATACAGGAAT
GGAAGTCTGGGGAGGAGAAAACCTTGAGTTCTCCTTTAGGATCTGGCAGTGTGGTGGCACTCTGGAAACG
CACCCGTGCTCCCATGTGGGCCACGTCTTCCCTAAGCAAGCTCCCTATTCCCGTAGCAAGGCCCTGGCCA
ACAGTGTCCGAGCTGCAGAAGTGTGGATGGATGAATTTAAAGAACTCTACTACCACCGCAATCCCCAGGC
CCGCCTGGAACCCTTTGGGGACGTGACAGAGAGGAAGAAGCTTCGGGCTAAGCTCCAGTGTAAAGACTTC
AAGTGGTTCTTAGATACAGTGTACCCAGAATTGCACGTGCCAGAGGACAGGCCTGGCTTCTTTGGGATGC
TCCAGAACAGAGGCCTAAGAGGGTACTGCCTTGACTACAATCCTCCCAATGAAAACCATGTTGAAGGCCA
CCAGGTCCTTCTGTACCTCTGCCATGGGATGGGTCAGAACCAGTTTTTCGAGTATACGACCCGGAAAGAA
ATACGCTATAACACCCGCCAGCCCGAAGCCTGCATCACCGTGGAGGACGGGAAGGATACCCTTGTCATGG
ATCTCTGCCGAGAGACCGTCCCAGAGAACCAGGAGTTCATCCTACAGGAGGATGGCACTTTAGTTCACAA
GCACAGCAGGAAATGTGTGGAGGCCACAGAGAAGGTGTTAGACAACGGCTTTGCACCATACTTACGGGAC
TGTACCAACTCAGATAACCAGAGGTGGTTCTTCAAGGAGCGCATGTCGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_172693

Insert Size: 1731 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:	NM_172693.3, NP_766281.1
RefSeq Size:	2216 bp
RefSeq ORF:	1731 bp
Locus ID:	230145
UniProt ID:	Q8BGT9
Cytogenetics:	4 B1
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 non-glycosylated peptides such as Muc5AC, Muc1a and EA2, and no detectable activity with Muc2 and Muc7. Displays enzymatic activity toward the Gal-NAc-Muc5AC glycopeptide, but no detectable activity to mono-GalNAc-glycosylated Muc1a, Muc2, Muc7 and EA2. May play an important role in the initial step of mucin-type oligosaccharide biosynthesis in digestive organs (By similarity).[UniProtKB/Swiss-Prot Function]