

Product datasheet for **MR209037**

Galnt12 (NM_172693) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR209037 representing NM_172693
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGGGCGTGCGGT**GAGGAGCGCTGCCCGGGGGCTGCGGCGCGCCGGGAGGCGTTGCTGGCAC**
 TGCTGGCCCTGGCAGGGCTGGGCGCGCTGCTGCGGGCTCGAAGCAGGTCGGGACGGTGGACCCGGGACC
 CCCGCGGACTCCTCTCCCGGGCGT**CACGAGCCAGTGCTGCCAGGCCGCGCTGCCCGCGATGCTCTG**
 GGAGCGCATGGGAGGCGGTGCGGCTGCAGCTGCAGGGCAGGAGCTGCGGCTGCAGGAGGAGAGCGTGA
 AGCAGCACCAGATCAACATCTATCTGAGCGACCGTATCTCGTGCACCGCCGACTGCCGAGCGCTGGAA
 CCCTCTGTGCAGAGAGGTGAAATACGATTATGATAACCTGCCAAGACTTCTGTTGTCATAGCATTTTAT
 AATGAAGCCTGGTCCACTCCTTCGGACAGTTTACAGTGTCTTGAGACCTCCCCTGACATCCTGCTGG
 AGGAGGTCATTCTGGTAGATGACTACAGCGACAGAGACCTAAAGGAACGCTTGGCAACGAGCTGTC
 ACAGCTCCCAAGGTGCGCTGATCCGTGCTAGCAGGAGAGAGGGCTAGTGCAGCCCGCTACTGGGA
 GCCTCTGCGGCCAGGGGCGAAGTCTGACTTCCCTAGACTGTCACTGTGAATGTCATGAGGGGTGGCTGG
 AGCCTCTGCTGCAGAGGATCCACGAGAAGGAGTCCGCAGTCGTGTGCCCTGTTATCGATGTGATTGACTG
 GAACACCTTTGAGTACCTGGGCAACTCGGGAGAGCCGAGATTGGCGGCTTTGACTGGCGGCTGGTATTC
 ACGTGGCAGCTGGTTCCCGAGCGGGAGCGGAGTGCATGCGGTCGCCGATCGATGTTATCAGGTCTCCAA
 CTATGGCTGGGGGCTGTTTGTGTGAGTAAGAGATATTTGATTATCTGGGGTCTTACGATACAGGAAT
 GGAAGTCTGGGGAGGAGAAAACCTTGAGTCTCCTTTAGGATCTGGCAGTGTGGTGGCACTCTGAAACG
 CACCCGTGCTCCCATGTGGGCCAGTCTCCCTAAGCAAGCTCCCTATCCCGTAGCAAGGCCCTGGCCA
 CAGCTGTCGAGCTGCAGAAGTGGATGGATGAATTTAAAGAAGCTACTACCACCGCAATCCCGAGG
 CCGCCTGGAACCTTTGGGGACGTGACAGAGAGGAAGAAGCTTCGGGCTAAGCTCCAGTGTAAAGACTTC
 AAGTGGTTCTTAGATACAGTGTACCCAGAATTGCAGTGCAGAGGACAGGCCTGGCTTCTTTGGGATGC
 TCCAGAACAGAGGCTAAGAGGGTACTGCCTTGACTACAATCCTCCCAATGAAAACCATGTTGAAGGCCA
 CCAGGTCTTCTGTACCTCTGCCATGGGATGGGTGAGAACCAGTTTTTTCGAGTATACGACCCGAAAGAA
 ATACGCTATAACACCCGCCAGCCGAGCCTGCATCACCGTGGAGGACGGGAAGGATACCCTTGTATGG
 ATCTCTGCCGAGAGACCGTCCAGAGAACCAGGAGTTCATCTACAGGAGGATGGCACTTTAGTTACAA
 GCACAGCAGGAAATGTGTGGAGGCCACAGAGAAGGTGTTAGACAACGGCTTTCACCATACTTACGGGAC
 TGTACCAACTCAGATAACCAGAGGTGGTCTTCAAGGAGCGCATGTCG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209037 representing NM_172693
 Red=Cloning site Green=Tags(s)

MWGRAVRRRCPRGLRRGREALLALLALAGLALLRARSRSRGTVDPGPPRTPLPGRHEPVLPRPPLPADAL
 GAHGEAVRLQLQGEELRLQEESVKQHQINIYLSDRISLHRRRLPERWNPLCREVKYDYNLPKTSVVIIFY
 NEAWSTLLRRTVYSVLETPDILLEEIVLVDYSDREHLKERLANELSQLPKVRLIRASRREGLVRRLLG
 ASAARGEVLTFLDCHCECHEGWLEPLLQRIHEKESAVVCPVIDVIDWNTFEYLGNSGEPQIGGFDRWLVF
 TWHVVPQRRERQSMRSPIDVIRSPTMAGGLFAVSKRYFDYLGSYDTGMEVWGGENLEFSFRIWQCGGTLET
 HPCSHVGHVFPKQAPYSRSKALANSVRAAEVWMDEFKELYYHRNPQARLEPFQDVTERRKLRKALQCKDF
 KWFLDVTYPELVHPEDRPGFFGMLQNRGLRGYCLDYNPPNENHVEGHQVLLYLCHGMGQNFYEYTRKE
 IRYNTRQPEACITVEDGKDTLVMDLCRETVPENQEFILQEDGTLVHKHSRKCVEATEKVLNDFAPYLRD
 CTNSDNQRWFFKERMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9015_a02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_172693

ORF Size: 1728 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_172693.4](#)

RefSeq Size: 2216 bp

RefSeq ORF: 1731 bp

Locus ID: 230145

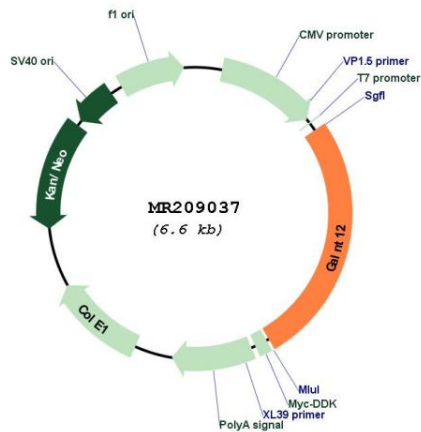
UniProt ID: [Q8BGT9](#)

Cytogenetics: 4 B1

MW: 67 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 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]

Product images:



Circular map for MR209037