

Product datasheet for **MR219436**

Galnt14 (NM_027864) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt14 (NM_027864) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galnt14
Synonyms:	0610033M06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219436 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCGGGCTGACTCGCCGCTTGGCGCTGCCATCTTTGGGGTCTCTGGATCACCGTACTGCTGTTCT
 TCTGGGTACCAAGAGGAAGTTGAGGTTGCCGCTGGGACCCGAAGTGCAGACCCCAAGCCTCCGATGC
 GGACTGGGATGACCTGTGGGAGCAGTTTGTAGAGCGCGGTATCTGAATGCCAAAAAGTGGCGTGTCCGT
 GATGATCCCTACAACTGTATGCTTTCAACCAACGGGAGAGTGAGCGGATATCGACAACTCGGGCTGTC
 CAGACACAGTCATAAGAGATGTTGCTGCTTGTGATTGACCGACCTTCTCCACCAGCATCATCAT
 CACCTTCCACAACGAGGCACGTTCCACTTACTCAGAACCATCCGCAGTGTGTTAAACCGAACCCCTATG
 CATCTGATCCAGGAAATCATATTAGTGGATGACTTTAGCAATGACCCCGAGGACTGCAAGCAACTCATCA
 AATTGCCCAAGGTGAAGTCTTGCACAACATGAGCGCAAGGTCTGGTCCGGTCTCGGATGCGAGGTGC
 TGACATTGCCAAGGCACCACTTGACCTTCTGGACAGCCATTGTGAGGTGAACAGGGATTGGCTGCAG
 CCCTGTTACACAGGGTCAAAGAGGACTACACAAGGGTTGTGTCCCTGTGATTGACATCATTAACCTGG
 ATACCTTCAACTATATTAGTCTGCCTCAGAGCTCAGAGGGGGCTTTGACTGGAGCTGCACTTCCAGTG
 GGAGCAGCTCTCCCTGGAGCAGAAAGCTTTGCGCCTAGACCCTACTGAGCCCATCCGGACTCCAATCATA
 GCCGGAGGGCTCTTCGTGATCGACAAAGCTGGTTCGATTACCTGGGTAATATGACGTCGACATGGACA
 TCTGGGGTGGGGAGAAGTTGAAATCTCTTCCGAGTGTGGATGTGTGGAGGTGGCTGGAGATCATCCC
 TTGCAGCCGGTGGGACATGTCTTCAGAAAAAGCATCCTTATGTTTTCCCGATGGGAACGCCAACACA
 TATAAAGAACCAAGAGGACAGCTGAAGTATGGATGGATGAATAACAAGCAGTACTACTATGCAGCTC
 GGCTTTTGCCTGGAGAGACCTTTGGAACATTGAGAACAGGCTGAACCTGAGGAAGAATCTTCACTG
 CCAGACCTTCAAGTGGTACCTAGAGAATGTCTACCCAGAAGTCAAGGTCACCCAGACTCCCTCCATCCAG
 AAGGGCAATATCCGCGAGCGGCAGAAGTGCCTTGAAGTCTCAAAAGCAGAAAAACAGGAGATTCTCAGGC
 TAAGTCCCTGTGCCAAGGTCAAAGGAGATGGAGCAAAGTCTCAGGTGTGGCCTTACATACACCCAGCA
 GATCATCCAAGAAGAGCTGTGCCTGTCCGTGGTACCCTGTTTCTGGTGCCTCCGTTCTTGTCTCTA
 TGCAAGAATGGGGATGAAAGGCAGCTATGGACCAAGACTGGTCCCGAATTGAGCACATAGCATCTCACC
 TCTGCCTGGATACAGACATGTTTGGTGCAGCACCAGGATGGCAAGGAGTCTGTCAACCTTGTGA
 GTCGTCGCTCATGAGCCAGCACTGGGACATTGTGAGCTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219436 protein sequence
 Red=Cloning site Green=Tags(s)

MRRLTRRLALPIFGVLWITVLLFFWVTKRKLIVPLGPEVQTPKPSDADWDDLWEQFDERRYLNAAKWRVG
 DDPYKLYAFNQRESERISSNRAVPDTRHKRCSLLVYCTDLPPSTSIITFHNEARSTLLRTIRSVLNRTPM
 HLIQEIIIVDDFVNDPEDCKQLIKLKVCLRNNERQGLVRSRMRGADIAQGTTLTFLDSHCEVNRDNLQ
 PLLHRVKEDYTRVVPVIDIINLDTFNYIESASELRGGFDWSLHFQWEQLSLEQKALRLDPTPIRTPII
 AGGLFVIDKAWFDYLGKYDVMIDIWGGENFEISFRVWMC GGLEIIPCSRVGHVFRKHPYVFPDGNANT
 YIKNTKRTAEVWMDYKQYQYAAARPFALERPFNGIENRLNLRKNLHCQTFKWYLENVVPELRVPPDSSIQ
 KGNIRQRQKCLEQKQKQEIILRLSPCAKVKGDGAKSQVWAFYTYQIIQEELCLSVVTLFPGAPVVLAL
 CKNGDERQLWTKGARIEHIAHLCLDMDMFGDSTEDGKEVVVNPCESSLMSQHWIDIVSS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_027864

ORF Size: 1653 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_027864.2](#), [NP_082140.2](#)

RefSeq Size: 2467 bp

RefSeq ORF: 1653 bp

Locus ID: 71685

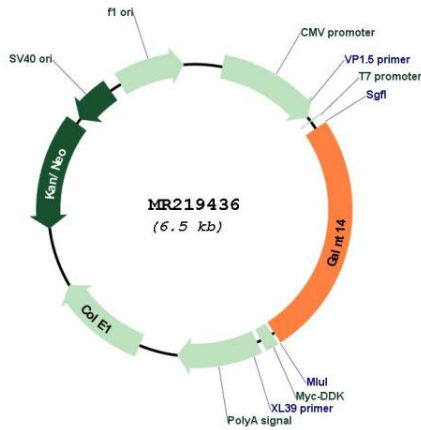
UniProt ID: [Q8BVG5](#)

Cytogenetics: 17 E2

MW: 64 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. Displays activity toward mucin-derived peptide substrates such as Muc2, Muc5AC, Muc7, and Muc13 (-58). May be involved in O-glycosylation in kidney (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219436