

Product datasheet for **MR205063**

Galnt10 (BC016585) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt10 (BC016585) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galnt10
Synonyms:	GalNAc-T9, ppGalNTase, Galnt9, GalNAc-T10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205063 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCGATGTCATCGACCAGTACTCCGGTATGAGACTCAGGCTGGGGACGCCATGCGTGTTGCCCT
TCGACTGGGAAATGTATTACAAACGGATCCCAATCCCTCCAGAAGCTGCAGAAGGCTGACCCAGTGACCC
ATTTGAGTCTCCCGTATGGCTGGAGGGTTGTTTCGCTGTGGACCGGAAATGGTCTGGGAGTTGGGCGG
TACGACCCTGGCTTGAGATCTGGGAGGAGAGCAGTATGAGATCTCCTCAAGGTGTGGATGTGTGGG
GCCGCATGGAGGACATCCCTGCTCCAGAGTGGGCCACATCTACAGGAAGTATGTGCCCTACAAGGTCCC
TGCCGGAGTCAAGCTGGCCCGAACCTGAAGCGAGTGGCAGAGGTATGGATGGATGAATACGCAGAATAC
ATCTACCAGCGCAGGCCGGAGTACCGCCACCTCTCAGCTGGAGATGTCGTGGCCAGAAAAAGCTCCGAG
TCTCCCTCAACTGTAAGAGCTTCAAGTGGTTTATGACCAAAATTGCTGGGACCTGCCAAAGTTCTACCC
ACCCGTGGAACCCCGGCTGCAGCATGGGGGAGATTGCAATGTGGGCACAGGACTGTGCACAGACACG
AAGCTTGGCAGTGGGCTCCCACTGAGGCTCGAGACCTGCATCCGGGGCCGAGGCGAGGCTGCTTGA
ACAGTATGCAGGTCTTTACCTTACCTGGCGGGAGGACATCCGGCCTGGAGACCTCAGCACACCAAGAA
GTTTTGCTTCGACGCTGTCTCCACACCCAGCCAGTACCCTCTACGACTGCCACAGCATGAAGGGCAAC
CAGCTGTGAAATACCGAAAGGACAAGACGCTGTACCACCTGTGAGCGGCAGCTGCATGGACTGCAGCG
AGAGTGACCATAGGGTCTTCATGAACACCTGCAATCCCTCCTCCCTCACCCAGCAGTGGCTTTGAACA
CACCAACTCGACGGTCTTAGAGAATTTCAACAAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205063 protein sequence
Red=Cloning site Green=Tags(s)

MIDVIDHDDFRYETQAGDAMRGAFDWMYYKRIPIPELQKADPSDPFESPMAGGLFAVDRKWFWELGG
 YDPGLEIWGGEQYEISFKVVMCGGRMEDIPCSRVGHIYRKYVPYKVPAGVSLARNLKRVAEVMDEYAEY
 IYQRRPEYRHL SAGDVVAQKCLRSLNCKSFKWFMTKIAWDLPKFYPPVEPPAAAWGEIRNVGTGLCTDT
 KLGLTGSPLRLETCIRGRGEAAWNSMQVFTFTWREDIRPGDPQHTKKFCF DAVSHTSPVTLYDCHSMKGN
 QLWKYRKDKTLYHPVSGSCMDCSESDHRVFMNTCNPSSLTQQWLFHTNSTVLENFNKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC016585

ORF Size: 1017 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: [BC016585](#), [AAH16585](#)

RefSeq Size: 2389 bp

RefSeq ORF: 1019 bp

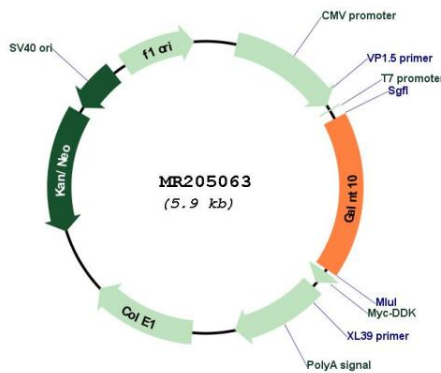
Locus ID: 171212

Cytogenetics: 11 B1.3

MW: 39.2 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 MR205063