

Product datasheet for **MR208588**

Galnt2 (BC053063) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt2 (BC053063) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galnt2
Synonyms:	A1480629
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208588 representing BC053063
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTCCACAACCCACAGGGTGACTGGAATGACATCGACTCCATTAAGAAGAAAGACCTTCACCACA
 GCAGAGGAGATGAGAAAGCACAGGGTGTGGAGACCCTCCCTCCAGGCAAAGTCCGGTGGCCAGACTTTAA
 CCAGGAGGCATACGTTGGCGGTACAATGGTTTCGCTCTGGGCAGGACCCGTACGCACGCAACAAGTCAAC
 CAGGTGGAGAGTGACAAGCTGCACATGGACAGAGGCATCCCCGACACCCGGCATGACCAGTGTGAGCGCA
 AGCAGTGGCGAGTGGACCTGCCAGCCACCAGCGTGGTATCACATTCCACAATGAAGCCAGGTGCGCCCT
 GCTGCGGACGGTGGTCAAGAGGAGTCCACCTCACCTCATCAAGGAGATAATCTGGTGGAT
 GACTACAGCAACGACCCTGAGGACGGGGCCCTCTGGGAAAATCGAGAAGGTGCGGGTCTCAGAAATG
 ACCGGAGAGAAGGTCTAATGCGCTCTCGGGTCCGGGTGCCGACCGCCAGGCCAAGGTCTGACCTT
 CCTAGACAGTCACTGCGAGTGTAAAGAGCGATGGCTGGAGCCACTTTGGAGCGGTTGCTGAGGACAGG
 ACCCGAGTTGATCCCCATTATCGATGTCATTACATGGATAATTTCCAGTATGTGGGCGCCTCTGCTG
 ACCTCAAGGGTGGTTTTGACTGGAACCTGGTGTCAAGTGGGATTACATGACACCAGAGCAGAGGCGATC
 CCGCAGGGGAACCCAGTTGCCCTATAAAAACTCCGATGATCGCTGGCGGCCTCTTCGTGATGGACAAG
 CTCTATTTTGAAGAGCTGGGGAAGTACGACATGATGATGGACGTGTGGGAGGAGAGAAGTTGGAGATCT
 CATTCCGAGTGTGGCAGTGTGGTGGCAGCCTGGAGATCATCCCGTGCAGCCGCGTGGGCCACGTGTTCCG
 GAAGCAGCATCCCTACAGTTCGCCGTTGGCAGCGGCCTGTCTTTGCCCGGAACACAGCCGGGACGT
 GAAGTCTGGATGGATGAGTACAAACATTTCTACTACGACGCGTGCCTTCTGCAGAAACGTGCCCTATG
 GGAATATTACAGCAGGCTGGAGCTCAGGAAAAGCTGGGCTGCAAGCCCTTCAAGTGGTACCTGGACAA
 CGTCTACCCGGAGCTGAGGGTTCAGACCACAGGACATAGCTTTCGGGGCCTTACAGCAGGGAACCAAC
 TGCTGGACACCTGGGACACTTCGCGGATGGAGTTGTTGGAATTTATGAGTGTACAACGCTGGAGGAA
 ACCAGGAATGGGCCTTGACAAAGGAGAAGTCGGTGAAGCACATGGACCTGTGCCTTACTGTGGTGGACCG
 TTCGCTGGGTCACTCATCAGGCTGCAGGGTCCCGGAGAACGACAGCAGACAGAAGTGGGAGCAGATC
 GAAGGCAACTCCAACTGCGACACGTGGCAGCAACCTGTGCCTGGATAGCCGACTGCCAAGAGCGGAG
 GCCTGAGTGTGGAGGTGTGTGGCCCGCCCTGTCACAACAGTGAAGTTCTCACTCAACCTGCAGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208588 representing BC053063
 Red=Cloning site Green=Tags(s)

MALHNPQGDWINDIDSIKKKDLHHSRGDEKAQGVETLPPGKVRWPDFNQEAYVGGTMVRSQDPYARNKFN
 QVESDKLHMDRGIPTDRHDQCQRKQWRVLDLPATSVVITFHNEARSALLRTVVSVLKRSPPHLIKEIILVD
 DYSNDPEDGALLGKIEKVRVLRNDRREGLMRSRVRGADAAQAKVLTFLDSHCECNERWLEPLLERVAEDR
 TRVVSPIIDVINMDNFQYVGASADLKGGFDWNLVFKWDYMTPEQRRSRQGNPVAPIKTPMIAGGLFVMDK
 LYFEELGKYDMMMDVWGGENLEISFRVWQCGGSLEIIPCSRVGHVFRKQHPYTFPGSGTVFARNTRRAA
 EVWMDEYKHFYAAVPSARNVPYGNISRLRLRKKLGCKPFKWLVDNVPPELRVDPHQDIAFGALQQGTN
 CLDTLGHFADGVVGIYECHNAGGNQEWALTHEKSVKHMDLCLTVVDRSPGSLIRLQGRENDSRQKWEQI
 EGN SKLRHVGSNLCLDSRTAKSGGLSVEVCGPALSQQWKFSLNLQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9005_g05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC053063

ORF Size: 1608 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: [BC053063.1](#)

RefSeq Size: 3975 bp

RefSeq ORF: 1610 bp

Locus ID: 108148

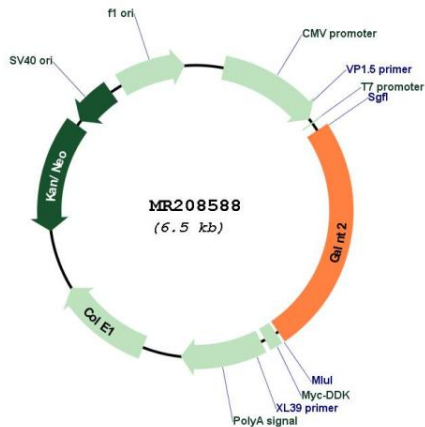
Cytogenetics: 8 E2

MW: 145.8 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 a broad spectrum of substrates for peptides such as EA2, Muc5AC, Muc1a, Muc1b. Probably involved in O-linked glycosylation of the immunoglobulin A1 (IgA1) hinge region (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208588