

Product datasheet for **MG208588**

Galnt2 (BC053063) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt2 (BC053063) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galnt2
Synonyms:	A1480629
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208588 representing BC053063
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTCCACAACCCACAGGGTGACTGGAATGACATCGACTCCATTAAGAAGAAAGACCTTCACCACA
 GCAGAGGAGATGAGAAAGCACAGGGTGTGGAGACCCTCCCTCCAGGCAAAGTCCGGTGGCCAGACTTTAA
 CCAGGAGGCATACGTTGGCGGTACAATGGTTTCGCTCTGGGCAGGACCCGTACGCACGCAACAAGTTCAAC
 CAGGTGGAGAGTGACAAGCTGCACATGGACAGAGGCATCCCCGACACCCGGCATGACCAGTGTGAGCGCA
 AGCAGTGGCGAGTGGACCTGCCAGCCACCAGCGTGGTATCACATTCCACAATGAAGCCAGGTGCGCCCT
 GCTGCGGACGGTGGTCAAGAGGAGTCCACCTCACCTCATCAAGGAGATAATCTGGTGGAT
 GACTACAGCAACGACCCTGAGGACGGGGCCCTCTGGGAAAATCGAGAAGGTGCGGGTCTCAGAAATG
 ACCGGAGAGAAGGTCTAATGCGCTCTCGGGTCCGGGTGCCGACCGCCAGGCCAAGGTCTGACCTT
 CCTAGACAGTCACTGCGAGTGTAAAGAGCGATGGCTGGAGCCACTTTGGAGCGGTTGCTGAGGACAGG
 ACCCGAGTTGATCCCCATTATCGATGTCATTACATGGATAATTTCCAGTATGTGGGCGCCTCTGCTG
 ACCTCAAGGGTGGTTTTGACTGGAACCTGGTGTCAAGTGGGATTACATGACACCAGAGCAGAGGCGATC
 CCGGCAGGGGAACCCAGTTGCCCTATAAAAATCCGATGATCGCTGGCGCCTCTTCGTGATGGACAAG
 CTCTATTTTGAAGAGCTGGGGAAGTACGACATGATGATGGACGTGTGGGAGGAGAGAAGTTGGAGATCT
 CATTCCGAGTGTGGCAGTGTGGTGGCAGCCTGGAGATCATCCCGTGCAGCCGCGTGGGCCACGTGTTCCG
 GAAGCAGCATCCCTACACGTTCCCGGTGGCAGCGGCACTGTCTTTGCCCGGAACACAGCCGGGACGT
 GAAGTATTCAGAGCAGGCTGGAGCTCAGGAAAAGCTGGGCTGCAAGCCCTTCAAGTGGTACCTGGACAA
 CGTCTACCCGGAGCTGAGGGTTCCAGACCACAGGACATAGCTTTCGGGGCCTTACAGCAGGGAACCAAC
 TGCTTGGACACCTTGGGACACTTCGCGGATGGAGTTGTTGGAATTTATGAGTGTACAACGCTGGAGGAA
 ACCAGGAATGGGCCTTGACAAAGGAGAAGTCGGTGAAGCACATGGACCTGTGCCTTACTGTGGTGGACCG
 TTCGCTGGGTCACTCATCAGGCTGCAGGGCTGCCGGGAGAACGACAGCAGACAGAAGTGGGAGCAGATC
 GAAGGCAACTCCAACTGCGACACGTGGGAGCAACCTGTGCCTGGATAGCCGACTGCCAAGAGCGGAG
 GCCTGAGTGTGGAGGTGTGTGGCCCGCCTGTCAACACAGTGAAGTTCTCACTCAACCTGCAGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208588 representing BC053063
 Red=Cloning site Green=Tags(s)

MALHNPQGDWNDIDSIKKKDLHHSRGDEKAQGVETLPPGKVRWPDFNQEAYVGGTMVRSQDQPYARNKFN
 QVESDKLHMDRGIPDTRHDQCQRKQWRVDLPATSVVITFHNEARSALLRTVVSVLKRSPPHLIKEIILVD
 DYSNDPEDGALLGKIEKVRVLRNDRREGLMRSRVRGADAAQAKVLTFLDSHCECNERWLEPLLERVAEDR
 TRVVSPIIDVINMDFQYVGASADLKGGFDWNLVFKWYMTPEQRRSRQGNPVAPIKTPMIAGGLFVMDK
 LYFEELGKYDMMMDVWGGENLEISFRVWQCGGSLEIIPCSRVGHVFRKQHPYTFPGSGTVFARNTRRAA
 EVWMDEYKHFYAAVPSARNVPYGNIQSRLELRKKGCKPFKWLNDNVPELRVPDQDIAFGALQQGTN
 CLDTLGHFADGVVGIYECHNAGGNQEWALTHEKSVKHMDLCLTVVDRSPGSLIRLQGRENDSRQKWEQI
 EGNKLRHVGSNLCLDSRTAKSGGLSVEVCGPALSQQWKFSLNLQQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



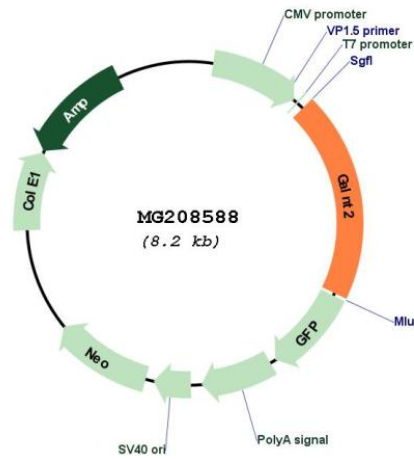
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                                Kozac
                                Consensus
                                Sgf I    Asc I
EcoR I      BamH I Kpn I    RBS
CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

Hind III   Nhe I  Rsr II   Mlu I      Not I    Xho I      GFP Tag
CAAGCTTAAGCTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC  GAG  ATG  GAG  AGC  GAC  - - - - -
                                           T  R  T  R  P  L  E  M  E  S  D  - - - - -

                               Pme I   Fse I
- - - GAA GAA AGA GTT TAA ACGGCCGGCCCGGAGCT
- - - E  E  R  V  Stop
  
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Plasmid Map:



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:	<ol style="list-style-type: none">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
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]