

Product datasheet for **MG208987**

Galnt2 (NM_139272) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt2 (NM_139272) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galnt2
Synonyms:	AI480629
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208987 representing NM_139272
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCGCGGCTCGCGGATGCTGCTGTGCTTCGCGCTGCTCTGGGTCTGGGCATCGCCTACTACATGT
 ACTCGGGGGCGGCTCCGCGCTGGCCGCGGGCGGGCGGCGCCGCGCAGGAAGGGTACTGGAATGACAT
 CGACTCCATTAAGAAGAAAGACCTTCACCACAGCAGAGGAGATGAGAAAGCACAGGGTGTGGAGACCCTC
 CCTCCAGGCAAAGTCCGGTGGCCAGACTTTAACCAGGAGGCATACGTTGGCGGTACAATGGTTCGCTCTG
 GGCAGGACCCGTACGCACGCAACAAGTTCAACCAGGTGGAGAGTGACAAGCTGCACATGGACAGAGGCAT
 CCCCAGACCCCGCATGACCAGTGTACGCGCAAGCAGTGGCGAGTGGACCTGCCAGCCACCAGCGTGGTG
 ATCACATTCACAATGAAGCCAGGTCCGCCCTGCTGCGGACGGTGGTCAAGAGGAGTCCAC
 CTCACCTCATCAAGGAGATAATCCTGGTGGATGACTACAGCAACGACCCTGAGGACGGGGCCCTCTGGG
 GAAAATCGAGAAGGTGCGGGTCTCAGAAATGACCGGAGAGAAGGTCTAATGCGCTCTCGGGTCCGGGT
 GCCGACGCCGCCAGGCCAAGGTCTGACCTTCTAGACAGTCACTGCGAGTGTAAACGAGCGATGGCTGG
 AGCCACTCTTGGAGCGGGTTGCTGAGGACAGGACCCGAGTTGTATCCCCATTATCGATGTCATTAAACAT
 GGATAATTTCCAGTATGTGGGCGCTCTGCTGACCTCAAGGGTGGTTTTGACTGGAACCTGGTGTCAAG
 TGGGATTACATGACACCAGAGCAGAGGCATCCCGCAGGGGAACCCAGTTGCCCTATAAAAACTCCGA
 TGATCGCTGGCGGCTCTTCGTGATGGACAAGCTCTATTTGAAGAGCTGGGGAAGTACGACATGATGAT
 GGACGTGTGGGGAGGAGAGAAGTGGAGATCTCATTCCGAGTGTGGCAGTGTGGTGGCAGCCTGGAGATC
 ATCCCGTGCAGCCGCGTGGGCCAGTGTCCGGAAGCAGCATCCCTACACGTTCCCGGTGGCAGCGGCA
 CTGTCTTTGCCCGAACACACGCGGGCAGCTGAAGCTGGATGGATGAGTACAAACATTTCTACTACGC
 AGCGGTGCCCTTCTGCACGAAACGTGCCCTATGGGAATATTAGAGCAGGCTGGAGCTCAGGAAAAAGCTG
 GGCTGCAAGCCCTTCAAGTGGTACCTGGACAACGTCTACCCGGAGCTGAGGGTTCCAGACCACCAGGACA
 TAGCTTTCCGGGCTTACAGCAGGGAACCAACTGCCTGGACACCTTGGGACACTTCGCGGATGGAGTTGT
 TGGAAATTTATGAGTGTCAACAACGCTGGAGGAAACCAGGAATGGGCCTTGACAAAGGAGAAGTCGGTGAAG
 CACATGGACCTGTGCCTTACTGTGGTGGACCGTTCGCCTGGTCACTCATCAGGCTGCAGGGCTGCCGGG
 AGAACGACAGCAGACAGAAGTGGGAGCAGATCGAAGGCAACTCCAACTGCGACAGTGGCAGCAACCT
 GTGCCTGGATAGCCGCACTGCCAAGAGCGGAGGCCTGAGTGTGGAGGTGTGTGGCCCGCCCTGTACAA
 CAGTGGAAGTTCTCACTCAACCTGCAGCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208987 representing NM_139272
 Red=Cloning site Green=Tags(s)

MRRRSRMLLCLFALLWVLGIAYMYSGGGSALAAGGGGAGRKGDWNDIDSIKKKDLHHSRGEKAQGVETL
 PPGKVRWPDFNQEAYVGGTMVRSQDPYARNKFNQVESDKLHMDRGIPTDRHQQRKQWRVLDLPATSVV
 ITFHNEARSALLRTVSVLKRSPHLIKEIILVDDYSNDPEDGALLGKIEKVRVLRNDRREGLMRSRVRG
 ADAQAQAVLTFLDHCECNERWLEPLLERVAEDRTRVVSPIIDVINMDFQYVGSADLKGFDWNLVFK
 WDYMTPEQRRSRQGNPVAPIKTPMIAGGLFVMDKLYFEELGKYDMMMDVWGGENLEISFRVWQCGGSLEI
 IPCSRVGHVFRKQHPYTFPGSGTVFARNTRRAAEVWMDEYKHFYAAVPSARNVPYGNIQSRLELRKLL
 GCKPFKWL DNVYPEL RVPDHDIAFGALQQGTNCLDTLGHFADGVVGIYECHNAGGNQEWAL TKEKSVK
 HMDLCLTVVDRSPGSLIRLQGCRENDSRQKWEQIEGNSKLRHVGSNLCDSRTAKSGGLSVEVCGPALSQ
 QWKFSLNLQQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	NM_139272.2 , NP_644678.2
RefSeq Size:	4131 bp
RefSeq ORF:	1713 bp
Locus ID:	108148
UniProt ID:	Q6PB93
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]