

Product datasheet for **MG208869**

Galnt1 (NM_013814) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt1 (NM_013814) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galnt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208869 representing NM_013814
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGAAAATTTGCATATTGCAAGTGGTTCTAGCCACCTCCTTGGTTTGGTACTCTTGGATATGTTCC
 TGCTGCTTTACTTCAGTGAATGCAACAAATGTGAAGAGAAGCAGGAGAGAGGACTTCCTGCTGGTGACGT
 TCTAGAGCTAGTGCAGAAACCTCATGAAGTCTCGGAGAAATGGGAAACCAGTCGTCATTCCGAAAGAG
 GATCAAGAAAAGATGAAAGAGATGTTTAAACCAATCAGTTCACTTAATGGCAAGTGAGATGATTGCAC
 TCAACAGATCCTTACCAGATGTGAGGTTAGAGGGGTGTAACAAAGGTGTATCCAGATAACCTTCTAC
 AACAAAGTGGTGATTGTTTTCCACAATGAGGCATGGAGCACACTTCTGCGAACAGTCCATAGTGCATT
 AATCGCTCGCAAGACATATGATAGAAGAGATTGTTCTGTAGATGATGCCAGTAAAGAGACTTTTTGA
 AAAGACCTCTAGAGATTATGTAAAAAAGTAAAGTCCCGTTCATGTAATCGAATGGAGCAGCGCTC
 TGGGTTGATCAGAGCTAGATTGAAAGGAGCTGCTGTGTCCAGAGGCCAAGTATCACCTTCTTAGATGCT
 CACTGTGAATGCACCGCAGGGTGGCTGGAGCCTCTGTTGGCCCGATCAAACATGACAGGAGGACAGTGG
 TGTGTCCTATCATCGACGTGATCAGTGTGACACTTTCGAGTACATGGCCGGCTCTGACATGACCTATGG
 TGGCTTCAACTGGAAGCTCAATTTTCGTTGGTATCCTGTTCCCGAGCAGAAAATGGACAGACGAAAAGGT
 GACAGGACTCTTCTGTGAGAACACCTACAATGGCTGGAGGCCTTTTTCAATAGACAGAGATTACTTTC
 AGGAAATTGGAACATACGATGCTGGAATGGATATTTGGGAGGAGAAAACCTAGAAAATTTCAATTTAGGAT
 TTGGCAGTGTGGAGAACTTTGGAAATAGTGACATGCTCCCATGTTGGTCATGTGTTTCGGAAAGCTACA
 CCTTACACATTTCCAGGAGGGACAGGGCAGATTATCAATAAGAATAACAGGCGGCTTGCAGAAGTATGGA
 TGGATGAATCAAGAATTTCTTCTATATAATTTCTCCAGGTGTTACAAAGGTAGATTATGGAGATATATC
 ATCAAGACTTGGCCTAAGACGTAACACTACAATGCAAAACCTTTCTTTGGTACCTAGAAAATATTTACCCT
 GATTCTCAAATTCCTCGTCACTATTTCTCATTGGGAGAGATACGAAATGTGGAACAAATCAGTGTCTAG
 ATAACATGGCTAGAAAAGAGAATGAAAAGGTTGGAATCTTTAATTGTCATGGTATGGGAGGTAATCAGGT
 TTTCTCTACACTGCCAACAAAGAAATAGAACAGACGACCTTTGTTGGACGTTTCCAACTTAATGGC
 CCAGTACCATGCTCAAATGCCACCACATAAAAGGCAACCAGCTCTGGGAGTATGACCCAGTGAAATTA
 CCCTGCAGCATGTGAACAGCAATCAGTGCCTGGATAAAGCCACAGAGGAGGACAGCCAGGTGCCAGCAT
 TAGAGACTGCACTGGAAGCCGGTCCAGCAGTGGCTTCTCGAAACGTCACCTTCCAGAAATATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208869 representing NM_013814
 Red=Cloning site Green=Tags(s)

MRKFAYCKVVLATSLVWLLDMFLLLIFSECNKCEEKQERGLPAGDVLELVQKPHEGPGEMGKPVVIPKE
 DQEKMKEMFKTNQFNLMASEMIALNRSLPDVRLEGCKTKVYYPDNLPTTSVVIVFHNEAWSTLLRTHVSVI
 NRSRPHMIEEIVLVDDASERDFLKRPLESYVKKLKVPHVIRMEQRSLIRARLKGAAVSRGQVITFLDA
 HCECTAGWLEPLLARIKHDRRTVVCPIIDVISEDTEYFYMAGSDMTYGGFNWKLNFRWYYPVQREMDRRKG
 DRTLPRVPTMAGGLFSIDRDYFQIEIGTYDAGMDIWGGENLEISFRIWQCGGTLEIVTCSHVGHVFRKAT
 PYTFPGGTGQIINKNNRRLAEVVMDEFKNFFYIISPGVTKVDYGDISSRLGLRRKLQCKPFSWYLENIYP
 DSQIPRHYFSLGEIRNVEITNQCLDNMARKENEKVGIFNCHGMGGNQVFSYANKEIRTDLCLDVSKLNG
 PVTMLKCHHLKGNQLWEYDPVKLTQHVNSNQCLDKATEEDSQVPSIRDCTGSRSQWLLRNVTLP EIF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoR I *BamH I* *Kpn I* RBS *Sgf I* *Asc I*

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

Hind III *Nhe I* *Rsr II* *Mlu I* *Not I* *Xho I* GFP Tag

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CTC GAG ATG GAG AGC GAC - - - - -

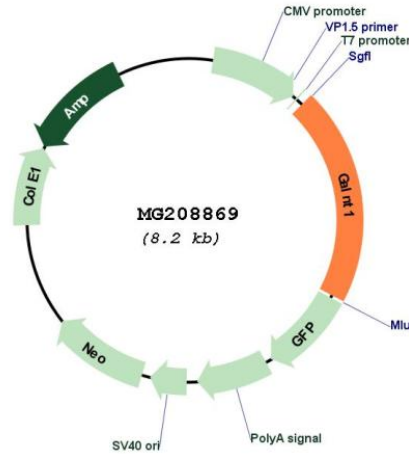
T R T R P L E M E S D - - -

Pme I *Fse I*

- - - GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:



ACCN:	NM_013814
ORF Size:	3993 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_013814.2](#)

RefSeq Size: 2722 bp

RefSeq ORF: 1680 bp

Locus ID: 14423

UniProt ID: [O08912](#)

Cytogenetics: 18 A2

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 and Muc7. [UniProtKB/Swiss-Prot Function]