

Product datasheet for **MG217090**

Galnt5 (NM_172855) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt5 (NM_172855) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galnt5
Synonyms:	4832424J23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217090 representing NM_172855
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACAAGATCCGAAAGTTTTCCGAGGAAGTGGGCGAGTCTTGGCATTATATTTGCAGCGTCTGTCA
 TCTGGTTGCTCTTTGACATGGCAGCTCTCCGCCTCATTTCAGTGAGATCAACGCAGGGCTACTCAAAGA
 AGATATCATAAGGAGGGAACATACGGGATTTCAGAGTTGAGCCAGACCAAGTGAAGGTCCTTTACACCAGC
 ATCAGAGGGATGGGGCTGCCTCAGAATGGAGCGTGGGGTAAGGAGAACTTTAGAAAAGCTGAGAACCATG
 AACTCAAGGTTGAGGAGAATATGGACCAAGTCCAGAGGAAAGGGAAAAATGCAGAACCTCTGGGAAGGAG
 AAAGGCTGTGCCTTTGTGGCATCTTGACATCTGCAAACCCTCCCAGTGACAATCCCATGCAGAAGACC
 CAGGGGAGAGATAGCAAGCCTGAAGTCTCCTCCCAATACATGATGTCCAAGTGGATGACAGTGTAGAGT
 CTGAGAAGACCCATTACAGCTTCAAGAGGAGTTCATTGACCAAAAATAGCAGGACGTACAGAAACCTT
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 ACCTGTAATGACCATCAGTGTCAAGACTGATAGATCAAAGCAAAAATCACAGACAGTAACAAAATTTGA
 GGATGCACCTTTGCCAGCCACCAATCCTGAAATCTGAGGAAGTCACAGTCATAAAGAAAAGCTGAGGCTCA
 GAGCAAAGACCTAAAACATGAAGCCCTTAAAGCGCTACCACTTCTTAAGTTCATTGCAGATATGGGTCAT
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 CACCAAAGAGGTACCTAATTTCTAAAACCAAACTGTGTTTCTAAATTAAGTGGTGGAAAGTCCACATAAA
 CAAATCCCAGAAATCAAAGCAAGACGTCATCCTCTCCCCAGCTCTGAAGAAAGCAGTGTCTCAGTCCA
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 CATTGTTTTTGAAGACTATCAGCAGTTATTATGTATGGAAGGGAATTTCTCTCAGAAGACCTGAAACTG
 GCTGCTTGAACCAATGAACTGCAACAAAAGTGGAAATTTGAAAAATACTACGAAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217090 representing NM_172855
 Red=Cloning site Green=Tags(s)

MNKIRKFFRSGRVLAFIFAASVIWLLFDMAALRSLFSEINAGLLKEDIIRREHTGFRVEPDQVKVLYTS
 IRGMGLPQNGAWGKENFRKAENHELKVEENMDQVQRKGMQNLGRRKAVPLWHLAHLQTLPTVPMQKT
 QGRDSKPEVSSQYMMKSWMTVLESEKTPFTASRGVPLTKIAGRTEFDKKQEAPQNYNVSSDTSKQASER
 TLNMTISVKTDRSKQKSQTVTKLRMHFASPPILKSEEVTVIKKAEAQSKDLKHEALKALPLLKFIADMGH
 LKNQSTNETQLGRLPEDDAKVAPGKLNFSSEHVVIITKEEELKTDTKVPSKQTQTVFPKLLGGSPHK
 QIPRNQSKTSSSPALPKAVSQSKPTISGGLHTARSNLAKAPTVDYVYQSSHANIPENPGMHVFRIDVTL
 SPRDLNAPQGFRPVVVPPEKKKEAEQRWKEGNFVYLSLIPVDRAIEDTRPAGCAEQLVHNDLPTTSI
 IMCFVDEVWSALLRSVHSLNRSPPHLIKEILLVDDFSTKEYLKADLDKYMSQFPKVRILRLKERHGLIR
 ARLAGAQNATGDVLTFLDSHVECNVWLEPLLERVYLNRRKVVACPVIEVINDKDMSYMVDNFQRGVFTW
 PMNFGWKTIPPDVAVKNGIKETDIIRCPVMAGGLFSIDKSYFYELGTYPGLDVWGGENMELSFKVMWCG
 GEIEIIPCSRVGHIFRNDNPYSFPKDRMKTVERNLRVAEVWLDYRELFGHGDHLIDQGLDVGNLTQQ
 RELRKKLKCKSFKWYLDNVFPDLKAPVVRASGVLINMALGKCVSIENITVTLEDCGSSQLQQFNVTWVR
 LIKHGEWCVAIPEKGSLLTYHCDNRNRRLKWLHKSASAFHPELVDHIVFENYQQLLCMEGNFSQKTLKL
 AACNPMELQQKWKFEKYEV

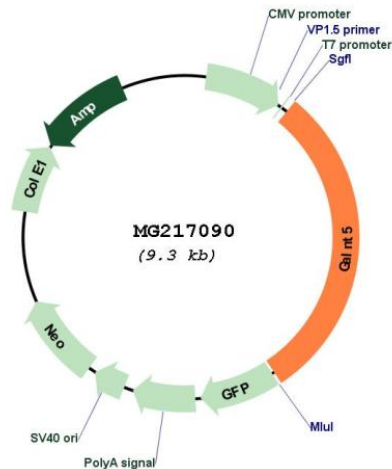
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_172855

ORF Size: 2790 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_172855.3](#), [NP_766443.2](#)

RefSeq Size: 3247 bp

RefSeq ORF: 2793 bp

Locus ID: 241391

UniProt ID: [Q8C102](#)

Cytogenetics: 2 C1.1

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 EA2 peptide substrate, but has a weak activity toward Muc2 or Muc1b substrates (By similarity).[UniProtKB/Swiss-Prot Function]