

Product datasheet for **MR217090**

Galnt5 (NM_172855) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Galnt5 (NM_172855) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Galnt5 |
| Synonyms: | 4832424J23 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR217090 representing NM_172855
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACAAGATCCGAAAGTTTTCCGAGGAAGTGGGCGAGTCTTGGCATTATATTTGCAGCGTCTGTCA
 TCTGGTTGCTCTTTGACATGGCAGCTCTCCGCCTCATTCAAGTGAAGTCAACGCAGGGCTACTCAAAGA
 AGATATCATAAGGAGGGAACATACGGGATTGAGAGTTCAGAGTTCAGCCAGACCAAGTGAAGTCTTTACACCAGC
 ATCAGAGGGATGGGGCTGCCTCGGAATGGAGCGTGGGGTAAGGAGAACTTTAGAAAAGCTGAGAACCATG
 AACTCAAGGTTGAGGAGAATATGGACCAAGTCCAGAGGAAAGGGAAAAATGCAGAACCTCTGGGAAGGAG
 AAAGGCTGTGCCTTTGTGGCATCTTGACATCTGCAAACCCTCCCAGTGACAATCCCATGCAGAAGACC
 CAGGGGAGAGATAGCAAGCTGAAGTCTCCTCCAATACATGATGTCCAAGTGGATGACAGTGTAGAGT
 CTGAGAAGACCCATTACAGCTTCAAGAGGAGTCCATTGACCAAAAATAGCAGGACGTACAGAAACCTT
 CGATAAAAAACAAGAGGCCCCCAAAATATAATGTCAGCAGCGATACATCAAAGCAAGCATCTGAAAGG
 ACCTGAAATAGACCATCAGTGTCAAGACTGATAGATCAAAGCAAAAATCACAGACAGTAACAAAATTTGA
 GGATGCACCTTTGCCAGCCACCAATCCTGAAATCTGAGGAAGTCACAGTCATAAAAGAAAGCTGAGGCTCA
 GAGCAAAGACCTAAAACATGAAGCCCTTAAAGCGCTACCACTTCTTAAGTTCATTGCAGATATGGGTCAT
 TTAAGAACAATCTACAATGAGACACAGTGGGAAGATTGCCAGAAGATGATGCAGCCAAAGTGGCGC
 CAGGGAAGAACTTAATTTCTCTGAAAGTCATGTTGTGATTATAACTAAAGAGGAAGAACTGAAGACAGA
 CACCAAAGAGGTACCTAATTTCTAAAACCAAACTGTGTTTCTAAATTAAGTGGTGGAAAGTCCACATAAA
 CAAATCCCAGAAATCAAAGCAAGACGTATCCTCTCCCCAGCTCTGAAGAAAGCAGTGTCTCAGTCCA
 AGCCACCATATCTGGGGACTCCATACAGCAAGAAGCAACTTGACTGCCAAGGCTCCAAGTGTGAGGATA
 CCAGCAAAGCCATGCAAATATCCCTGAAAACCCTGGAATGCACCAGTGTTCAGAATTGATGTGACCCTT
 TCTCAAGGGATCTCAATGCTCCGGTCAAGTTGGGCGCCCTGTGGTTGTTCCCCCTGAGAAGAAGAAGG
 AGGCCGAGCAGAGATGGAAGAAGGAACTTCAATGTCTACCTTAGTGAATTTGATTCCAGTGGACAGAGC
 CATTGAAGACACAAGGCCTGCTGGGTGTGAGAGCAACTAGTTCACAATGACCTCCCAACCACCAGCATC
 ATCATGTGCTTTGTAGATGAGGTGTGGTCCGCTCTACTGAGGTCTGTGCACAGCGTCTCAACCGCTCCC
 CTCCACACCTCATCAAGGAGATTCTGCTGGTGGATGACTTCAGCACCAAGAATACCTCAAAGCTGATTT
 GGATAAATACATGTCTCAATTTCCAAAAGTTCGGATTCTTCGCCTGAAGGAGAGACATGGCTTGATCAGA
 GCGAGGCTGGCTGGGACACAGAACGCAACAGGTGATGTGCTGACATTCTAGACTCTCATGTGGAGTGTA
 ATGTGGGCTGGCTGGAACCTCTACTGAAAAGAGTTTATTTAAATAGAAAGAAAGTGGCCTGTCCAGTAAT
 TGAAGTCATAAATGACAAGGACATGAGTTACATGACAGTGGACAACCTCCAAGAGGTGTCTTCACTGG
 CCCATGAACTTTGGCTGGAAAACAATCCCTCCAGATGTTGTTGCAAAAAATGGAATTAAGAAAACAGATA
 TAATAAGGTGCCAGTCATGGCAGGTGGATTATTTCCATTGACAAAAGTTACTTTTATGAACTTGGAAC
 ATATGACCCTGGTCTTGATGTTTGGGGAGGAGAAAATATGGAGCTATCATTCAAGGTCTGGATGTGTGGT
 GGTGAAATTGAGATCATCCCCTGTTCCAGAGTGGCCACATATTCAGAAACGACAATCCATATTCCTTCC
 CCAAAGACCGTATGAAGACAGTGAACGGAACCTGGTGGGGTTGCTGAGGTTTGGCTTGATGACTACAG
 GGAACCTTCTATGGCCATGGGATCACCTCATAGACCAAGGGCTGGATGTGGCAACCTTACCCAGCAA
 AGGGAGTTGCGGAAGAAGCTGAAATGCAAAAGTTTCAAGTGGTACTTGGACAATGTCTTTCTGACTTGA
 AGGCGCCCGTTGTGAGAGCTAGTGGTGTGCTTATTAATATGGCCTTGGGCAAGTGCCTTTCCATTGAAAA
 TATCACAGTACCCTCGAGGACTGCGATGGGAGCAGCCAGCTTCAACAATTAATATACCTGGGTAAGA
 CTTATTAAGCACGGAGAGTGGTGTGTGGCACCCATCCCTGAAAAAGGATCCCTGACACTGTACCATTGTG
 ACAACAGAAACAACAGGCTTAAATGGCTGCACAAATCAGCATCTGCCTTCCATCCAGAAGTGGTGGATCA
 CATTGTTTTTAAAACTATCAGCAGTTATTATGTATGGAAGGGAATTTCTCTCAGAAGACCCCTGAAACTG
 GCTGCTTGAACCAATGAACTGCAACAAAAGTGGAAATTTGAAAAATACTACGAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >MR217090 representing NM_172855
Red=Cloning site Green=Tags(s)

MNKIRKFFRSGRVLAFIFAASVIWLLFDMAALRFSFSEINAGLLKEDIIRREHTGFRVEPDQVKVLYTS
 IRGMGLPRNGAWGKENFRKAENHELKVEENMDQVQRKGMQNLLGRRKAVPLWHLAHLQTLPTVPMQKT
 QGRDSKPEVSSQYMMMSKWMVLESEKTPFTASRGVPLTKIAGRTEFTDKKQEAQNYNVSSDTSKQASER
 TLNMTISVKTDRSKQKSQTVTKLRMHFASPPILKSEEVTVIKKAEAQSKDLKHEALKALPLLKFIADMGH
 LKNQSTNETQLGRLPEDDAAKVAPGKLNLFSESHVVIITKEEELKTDTKVPSKQTQTVFPKLLGGSPHK
 QIPRNQSTSSPPALKKAVSQSKPTISGGLHTARSNLAKAPTGVYQQSHANIPENPGMHVFRIDVTL
 SPRDLNAPGQFGRPVVVPPEKKKEAEQRWKEGNFVYLSLIPVDRAIEDTRPAGCAEQLVHNDLPTTSI
 IMCFVDEVWSALLRSVHSLNRSPPHLIKEILLVDDFSTKEYLKADLDKYSQFPKVRILRLKERHGLIR
 ARLAGAQNATGDVLTFLDSHVECNVWLEPLLERVYLNRRKVVACPVIEVINDKMSYMTVDNFQRGVFTW
 PMNFGWKTIPPDVVAKNGIKETDIIRCPVMAGGLFSIDKSYFYELGTYDPGLDVWGGENMELSFKVMWCG
 GEIEIIPCSRVGHIFRNDNPYSFPKDRMKTVERNLRVAEVWLDYRELFGYHGDHLIDQGLDVGNTLQQ
 RELRKKLKCKSFKWYLDNVFPDLKAPVVRASGVLINMALGKCVSIENITVTLEDCGSSQLQQFNFTWVR
 LIKHGEWCVAIPEKGSLLTYHCDNRNRLKWLHKSASAFHPELVDHIVFENYQQLLCMEGNFSQKTLKL
 AACNPMELQQKWKFEKYEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9012_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



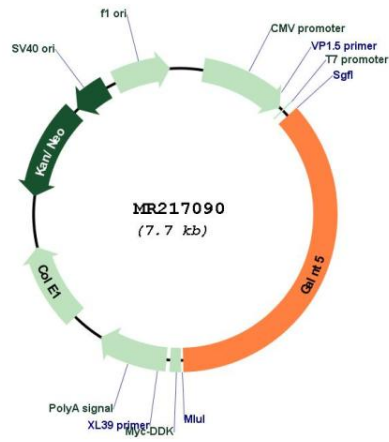
* The last codon before the Stop codon of the ORF

ACCN: NM_172855

ORF Size: 2790 bp

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|-------------------------------|---|
| 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_172855.3 , NP_766443.2 |
| RefSeq Size: | 3247 bp |
| RefSeq ORF: | 2793 bp |
| Locus ID: | 241391 |
| UniProt ID: | Q8C102 |
| Cytogenetics: | 2 C1.1 |
| MW: | 106.2 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 activity toward EA2 peptide substrate, but has a weak activity toward Muc2 or Muc1b substrates (By similarity).[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MR217090