

Product datasheet for **MR209820**

Galnt7 (NM_144731) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt7 (NM_144731) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galnt7
Synonyms:	A1225872
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209820 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGCTGAAGATCGGGTTCATCTTACGCAGTTTGTCTGGTGGTGGGAAGCTTCCTGGGGCTCGTGGTCC
TCTGGTCTTCCCTGTCTCGCGGCCGACGACCAGAGCCACTGAGCAGGATGAGGGAAGACAGAGATGT
CAATAACCCCTTGCCTAACCGAGGAGGCAATGGACTAGCTCCTGGAGATGACAGATTCAAACCTGTGGTA
CCATGGCCTCATGTTGAAGGAGTAGAAGTGGACTTAGAGTCTATTAGAAGAAAAACAAAGCCAAAAATG
AACAGGAGCGCCATGCTGGAGGAGATCCAGAGAGACGTAATGCAGAGGCAGTACCTTACATTTAAGCC
TCAGACCTTACCTACCGTATCCTGTGCTACGCCAGGGGTCTCGGAACTTTGAACCCAAAGAACC
GAGCCTCAGGAGTGGTGGTGGCCCTGGAGAGAAAGCCAAGCCATTGGTTCTGGGACCAGAATACAAAC
AAGCAGTTCAAGCCAGCATTAAAGGAGTTTGGATTTAACATGGTGGCAAGTACATGATCTCACTGGACCG
CAGCGTCAATGACTTACGCCAAGAAGAATGCAAGTATTGGCACTATGATGAAAACCTGCTTACTTCAAGC
GTTGTCATTGTCTTCCATAATGAAGGATGGTCAACCCTCATGAGGACAGTCCACAGTGTAAATCAAAGGA
CACCAAGGAAGTACTTAGCAGAAATCGTGTAAATTGATGACTTACGCAATAAAGAACACTTAAAAGAGAA
ACTGGATGAGTATATAAAGCTATGGAATGGCCTCGTGAAGGATTTTCGAAATGAGAGAAGAGAGGGTTTG
ATTCAGCTCGGAGCATTGGCGCACAGAAGGCTAAACTCGGACAGGTTTTGATATACCTTGATGCCCACT
GTGAGGTGGCAGTTAACTGGTATGCTCCACTTGTAGCCCCATATCTAAGGACAGAACATTTGCACTGT
GCCGATTATAGATGTATAAGCGCAACACATATGAAATTATACCCCAAGGGGTGGTATGAAGATGGG
TATGCCCGAGGAGCATGGGACTGGAGTATGCTCTGGAAACGGGTGCCTCTGACCTCTCGAGAGAAGAGAC
TGAGAAAAGACAAAACTGAGCCGTATCGTCTCCAGCTATGGCGGGTGGATTGTTTGCCATAGAGAAGGA
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AGTCGTGGAAGTCTGGTGGGATGAATATAAAGACTACTTCTATGCTAGCCGCTCTGAGTCAAAGGCGCTG
CCCTACGGGGACATATCTGAGCTGAAGAAATTCGAGAAGATCACAACCTGCAAAAGTTTCAAGTGGTTTA
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AGTGTGTTGACAAAGGGGCTGATGGATCCAAAGTCATGATCACACACTGTAACTAAATGAATTTAAGGA
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GTCCTGCATCAAGTGTTCATCTCCACCTGTGACTCCAGTAAAATGACTCAGAAGTGGGAGATGAATAACA
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ACAAGGATGACGACGATAAAGTTTAA

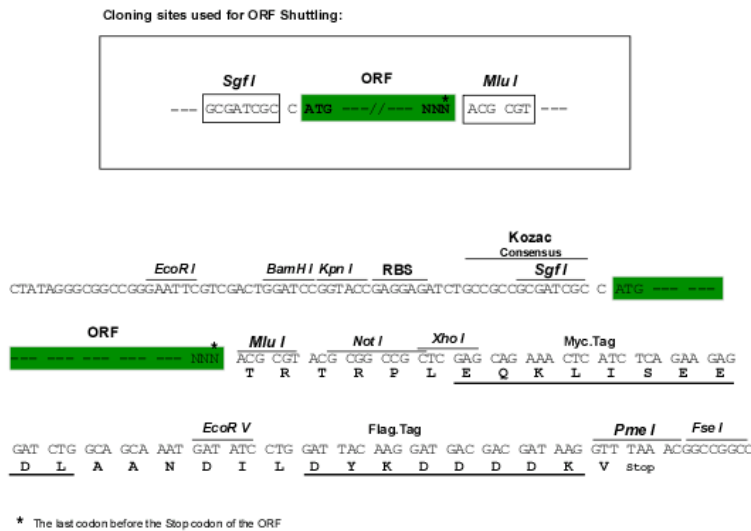
Protein Sequence: >MR209820 protein sequence
Red=Cloning site Green=Tags(s)

MRLKIGFILRSLLVVGSFLGLVVLWSSLSSRPDDQSPLSRMREDRDVNNPLPNRGGNGLAPGDDRFKPVV
 PWPVHVEGVEVDLESIRRNKAKNEQERHAGGDSQRDVMQRQYLTFKPQFTFYRDPVLRPGVLGNFEPKEP
 EPHGVVGGPGEKAKPLVLGPEYKQAVQASIKFEGFNMVASDMISLDRSVNDRQEECKYWHYDENLLTSS
 VVIVFHNEGWSTLMRTVHSVIKRTPRKYLAEIVLIDDFSNKEHLKEKLDEYIKLWNGLVKVFNRERREGL
 IQARSIGAQAQKAKLGQVLIYLDHACEVAVNWAYAPLVAPISKDRTICTVPIIDVISGNTYEIIPQGGDEDG
 YARGAWDWSMLWKRVP L TSREKRLRKTTEPYRSPAMAGGLFAIEKDFEFELGLYDPGLQIWGGENFEIS
 YKIWQCGGKLLFVPCSRVGHYRLEGWQGNPPPLYVGSSTLKNYVRVVEVWWEYKDYFYASRPESKAL
 PYGDISELKKFREDHNCKSFKWFMEIAYDITAHYPLPPRNVEWGEIRGLETAYCIDSMGKTNGGFVELG
 PCHRMGGNQLFRINEANQLMQYDQCLTKGPDGSKVMITHCNLNEFKEWQYFKSLHRFTHITSGKCLDRSE
 VLHQVFI STC DSSKMTQKWEMNNIHSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144731

ORF Size: 1974 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_144731.4](#), [NP_653332.3](#)

RefSeq Size: 4363 bp

RefSeq ORF: 1974 bp

Locus ID: 108150

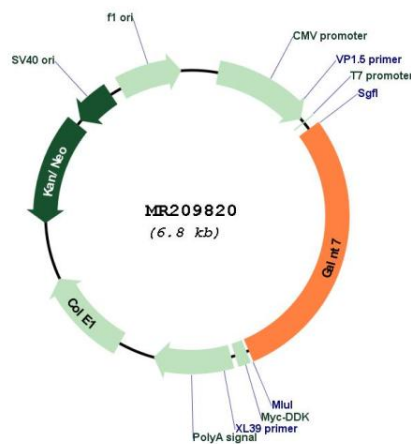
UniProt ID: [Q80VA0](#)

Cytogenetics: 8 B2

MW: 75.4 kDa

Gene Summary: Glycopeptide transferase involved in O-linked oligosaccharide biosynthesis, which catalyzes the transfer of an N-acetyl-D-galactosamine residue to an already glycosylated peptide. In contrast to other proteins of the family, it does not act as a peptide transferase that transfers GalNAc onto serine or threonine residue on the protein receptor, but instead requires the prior addition of a GalNAc on a peptide before adding additional GalNAc moieties. Some peptide transferase activity is however not excluded, considering that its appropriate peptide substrate may remain unidentified (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209820