

Product datasheet for **MR220195**

Galnt15 (NM_030166) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt15 (NM_030166) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galnt15
Synonyms:	4631401E18Rik; Galntl2; mpp-GalNAc-T15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR220195 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCCCAGGAAGCGACCCAGGAGTGGACGTTCCAGGCTTCAGTTCCTCTACTTCTCTGACTCTGG
 GATGTGTCTGATGATGGTGATCCTGCTGCATCCTCCCCGCCACCCTGCACCAGGCTGTACAGCTCA
 GGCCAGCAAACACAGCCCTGACACGGGGTACCGCTGGACTTTGGAGACTCTCAGGAGTGGGTCCTGGAG
 GCTGAGACTGAAGGTGATGAGTACAGTCTCTGGATGGCCTGCCATCCTTCATCTCCCTGCAGGAGGATC
 AACTGCTGGTGGCCGTGGCCTACCCAGAGCTAGGAGGAGTACAGAGCCAGGGCAGGAGACAGGGCAGCTA
 CCAGTTTCATCAAACACAGGAGCAGGAGATGGGATGAGGAAGCCCTGGAAAAGGACTGGAGGACCGAAGAG
 GATGGGGAGGAATCAGAAGAGGTGCTGACCCACTTGGCCGGACTCAGATGGCCTCAACAAGCCACTCA
 GTGCCCGCTGCCCTGAGGAGAGTCTGCCCGAGGTGCGACCCACTGTGTCTGCAGCAGCACCCTAC
 AAGTGGCCTGCCTACAGCCAGCGTCATCCTCTGCTTCCATGATGAGGCCCTGGCCACGCTCTTGAGAACT
 GTCCACAGCATCCTGGACACAGCACCCAGGGCCCTGCTGCAGGAGATCATCCTTGTAGATGACCTCAGCC
 AGCAAGAAGTGTGAAGTCTGCTCTCAGTGAATATGTGGCCAGGCTGGAGGCTGTGAAGTTGCTCAGGAG
 CAATAGGAGGCTCGGCACCATTGGAGCCCGGATGCTGGGGGCCACCAGGGCCACAGGGGACGTGCTGGTC
 TTCATGGATGCCACTGTGAGTGCCACCCTGGTTGGCTGGAGCCCTCCTCAGCAGAATAGCTGATGACA
 GGAGCCGAGTGGTGTCTCCAGTCATAGACGTGATTGACTGGAAGACGCTTCAGTACTCCGCATCCAAGCT
 GCATCGAGGGACGCTGGATTGGAAGCTGGATTTCCGATGGAAGCCCTGGGGGAGCAGGAGCAGAAGGCC
 CTCCCATCCCCATCAGCCCTGTGAGGAGCCCTGTGGTACCCCGAGAGGTGGTGGCCGTGGACAGACATT
 ACTTCCAAAACACCCGGAGCATACGATCCCCTTCTGTCACCTGGGGGATAGTGAATACTCGAGATGTCTTT
 CAAGGCCCTGGCTCTGCGGTGGCTCTGTTGAAATCCTTCCCTGCTCTCGAGTGGGACACATCTACCGAAGC
 CAAGATGCCAGCTCCAGGCTGACCCCGAGGTGCGCTTGAAGAACAAGATCATCATTGCTGAGACCTGGC
 TATCATCTTCAAGGAAACCTTCTACAGGCACATCCCAGAGGCCCTCACCTGAGCAAGGTTGCAAAGCC
 AGACTGTACAGAGCGCTGAAGCTGCAAAGGAGGCTGGGATGCCGGACGTTCCACTGGTTTCTGGCCAAT
 GTCTACCCTGAGCTGTACCCATCTGATCACAGGCCAGGTTCTCTGAAAGCTCCACAACACTGGATTTG
 GCCTCTGTGCGGACTGCCAAGCAGACGGTGACATCCTGGGCTGCCCATGACACTGGCTCCTTGCAAGTAA
 CAACCGGCAGCAACAGAACCCTGGAGCACACCCGGCAGGAAGGAGATTCTCTCGGCCGCCACAGCGCCTG
 TGCTTCGATGTCAGAGGAGGGCGGGTGATTCTGCAGAAGTGCACGGAGGAAGGCCCGCTATCCATCAGC
 AGCACTGGGACTTCCAGGAGGATGGAATGATCATCCATGTTCTTTCTGGAAAATGCATGGAAGCTGGGGT
 CCAGCCAAGCAATAAGGACTTGTACTTGCCTCAATGTGATGGTAAAACCAGCCAGCTGTGGAGGTTGAC
 CAGATCCACCCTGTGGATGAACGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220195 protein sequence
Red=Cloning site Green=Tags(s)

MLPRKRPRSGRSRLQFLLLFLTLGCVLMMVILLHPPPPTLHQAVTAQASKHSPDTGYRLDFGDSQEWVLE
 AETEGDEYSLLDGLPSFISLQEDQLLVAVASPRARRSQSGRRQGSYQFIKHSRRWDEEAEKDWRTTE
 DGESEEVLTPLGPDSDGLNKPLSARLPLRRVLPVVRHPLCLQQHPTASVILCFHDEAWPTLLRT
 VHSILDTAPRALLQEIIILVDDLQQEQLLSALSEYVARLEAVKLLRSNRRLGTIGARMLGATRATGDVLV
 FMDAHCCEHPGWLEPLLRSIADDRSRVSPVIDVIDWKTLYQSASKLHRGTLDWKLDFRWKPLGEQEKA
 LPSPISPVRSPPVPREVAVDRHYFQNTGAYDPLLSLGDSLENLEMSFKAWLGGSSVEILPCSRVGHYRS
 QDASSRPDPEVALKNKIIIAETWLSKFETFYRHIPEAF TL SKVAKPDCTERLKLQRR LGCRT FHWFLAN
 VPELYPSDHRPRFSGKLHNTGFGLCADQADGDI LGCPMTLAPCSNNRQQNLEHTGRKEILFGGPQRL
 CFDVRRGGRVILQNCTEETGPAIHQQHWFQEDGMI IHVLSGKCM EAGVQPSNKDLYLRQCDGKTSQLWRFD
 QIHPVDER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_030166

ORF Size: 1917 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_030166.3](#), [NP_084442.1](#)

RefSeq Size: 2341 bp

RefSeq ORF: 1917 bp

Locus ID: 78754

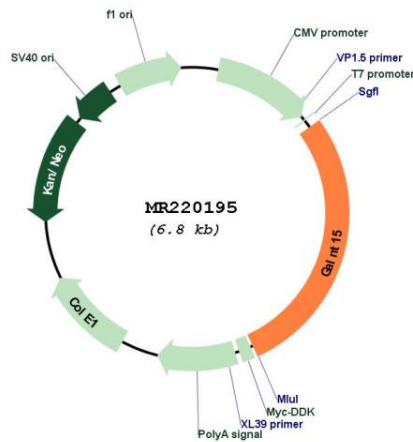
UniProt ID: [Q9D2N8](#)

Cytogenetics: 14 B

MW: 72.3 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. Although it displays a much weaker activity toward all substrates tested compared to GALNT2, it is able to transfer up to seven GalNAc residues to the Muc5AC peptide, suggesting that it can fill vicinal Thr/Ser residues in cooperation with other GALNT proteins. Prefers Muc1a as substrate (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220195