

Product datasheet for **MG220195**

Galnt15 (NM_030166) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt15 (NM_030166) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galnt15
Synonyms:	4631401E18Rik; Galntl2; mpp-GalNAc-T15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG220195 representing NM_030166
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCCCAGGAAGCGACCCAGGAGTGGACGTTCCAGGCTTCAGTTCCTCTACTCTTCTGACTCTGG
 GATGTGTCTGATGATGGTGATCCTGCTGCATCCTCCCCGCCACCCTGCACCAGGCTGTACAGCTCA
 GGCCAGCAAACACAGCCCTGACACGGGGTACCGCTGGACTTTGGAGACTCTCAGGAGTGGGTCCTGGAG
 GCTGAGACTGAAGGTGATGAGTACAGTCTCTGGATGGCCTGCCATCCTTCATCTCCCTGCAGGAGGATC
 AACTGCTGGTGGCCGTGGCCTACCCAGAGCTAGGAGGAGTCAAGCCAGGGCAGGAGACAGGGCAGCTA
 CCAGTTTCATCAAACACAGGAGCAGGAGATGGGATGAGGAAGCCCTGAAAAAGGACTGGAGGACCGAAGAG
 GATGGGGAGGAATCAGAAGAGGTCTGACCCACTTGGCCGGACTCAGATGGCCTCAACAAGCCACTCA
 GTGCCCGCTGCCCTGAGGAGAGTCTGCCCGAGGTGCGACCCACTGTGTCTGCAGCAGCACCCCTAC
 AAGTGGCCTGCCTACAGCCAGCGTCATCCTCTGCTTCCATGATGAGGCCCTGGCCACGCTCTTGAGAACT
 GTCACAGCATCCTGGACACAGCACCCAGGGCCCTGCTGCAGGAGATCATCCTTGTAGATGACCTCAGCC
 AGCAAGAAGTCTGAAAGTCTGCTCTCAGTGAATATGTGGCCAGGCTGGAGGCTGTGAAGTTGCTCAGGAG
 CAATAGGAGGCTCGGCACCATTTGGAGCCGGATGCTGGGGGCCACCAGGGCCACAGGGGACGTGCTGGTC
 TTCATGGATGCCACTGTGAGTGCCACCCTGGTTGGCTGGAGCCCTCCTCAGCAGAATAGCTGATGACA
 GGAGCCGAGTGGTGTCTCCAGTCATAGACGTGATTGACTGGAAGACGCTTCAGTACTCCGCATCCAAGCT
 GCATCGAGGGACGCTGGATTGGAAGCTGGATTTCCGATGGAAGCCCTGGGGGAGCAGGAGCAGAAGGCC
 CTCCCATCCCCATCAGCCCTGTGAGGACCCCTGTGGTACCCGAGAGGTGGTGGCCGTGGACAGACATT
 ACTTCCAAAAACCCGGAGCATACGATCCCCTTCTGCTACTGGGGATAGTAAAAATCTCGAGATGTCTTT
 CAAGGCCTGGCTCTGCGGTGGCTCTGTTGAAATCCTTCCCTGCTCTCGAGTGGGACACATCTACCGAAGC
 CAAGATGCCAGCTCCAGGCTGACCCGAGGTGCGCTTGAAGAACAAGATCATCATTGCTGAGACCTGGC
 TATCATCCTTCAAGGAAACCTTCTACAGGCACATCCCAGAGGCCCTCACCTGAGCAAGGTTGCAAAGCC
 AGACTGTACAGAGCGCTGAAGCTGCAAAGGAGGCTGGGATGCCGGACGTTCCACTGGTTTCTGGCCAT
 GTCTACCCTGAGCTGTACCCATCTGATCACAGGCCAGGTTCTCTGAAAGCTCCACAACACTGGATTTG
 GCCTCTGTGCGGACTGCCAAGCAGACGGTACATCCTGGGCTGCCCATGACTGGCTCCTTGCAGTAA
 CAACCCGAGCAACAGAACCTGGAGCACACCCGGCAGGAAGGAGATTCTCTCGGGGCCACAGCGCCTG
 TGCTTCGATGTCAGAGGAGGGCGGGTATTCTGCAGAAGTGCACGAGGAAGGCCCGCTATCCATCAGC
 AGCACTGGGACTTCCAGGAGGATGGAATGATCATCCATGTTCTTCTGAAAAATGCATGGAAGCTGGGGT
 CCAAGCAAGCAATAAGGACTTGTACTTGCCTCAATGTGATGGTAAAACCAGCCAGCTGTGGAGGTTGAC
 CAGATCCACCCTGTGGATGAACGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG220195 representing NM_030166
 Red=Cloning site Green=Tags(s)

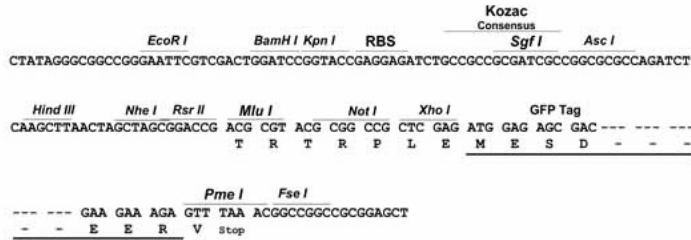
MLPRKRPRSRGRSRLQFLLLFLTLGCVLMMVILLHPPPTLHQAVTAQASKHSPDTGYRLDFGDSQEWLVE
 AETEGDEYSLLDGLPSFISLQEDQLLVAVASPRARRSQQSQRGQSYQFIKHSRRWDEEALEKDWRTTE
 DGEESSEVLTPGPDSDGLNKPLSARLPLRRVLPVVRHPLCLQQHPTSGLPASVILCFHDEAWPTLLRT
 VHSILDTAPRALLQEIIIVDDLSQLLELLKLSALSEYVARLEAVKLLRSNRRLGTIGARMLGATRATGDVLE
 FMDAHCECHPGWLEPLLRIADDRSRVSPVIDVIDWKTLYSASKLHRGTLDWKLDLFRWPLGEQEQA
 LPSPISPVRSPPVPREVAVDRHYFQNTGAYDPLLSLGDSENLEMSFKAWLCGGSVEILPCSRVGHYRS
 QDASSRPDPEVALKNKIIAETWLSKFETFYRHIPEAFVLSKVAKPDCTERLKLQRRLGCRTFHWFAN
 VPELYPSDHRPRFSGKLHNTGFLCADQADGDIIGCPMTLAPCSNNRQQQNLHTGRKEILFGGPQRL
 CFDVRRGRVILQNTTEGPAIHQQHWFQEDGMIHVLSGKMEAGVQPSNKDLVLRQCDGKTSQWRFL
 QIHPVDER

TRTRPLE – GFP Tag – V

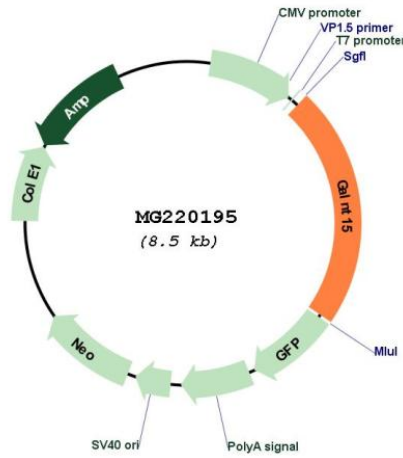
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_030166

ORF Size: 1914 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:	<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_030166.3 , NP_084442.1
RefSeq Size:	2341 bp
RefSeq ORF:	1917 bp
Locus ID:	78754
UniProt ID:	Q9D2N8
Cytogenetics:	14 B
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]