

Product datasheet for **MG223895**

Galnt3 (NM_015736) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt3 (NM_015736) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galnt3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223895 representing NM_015736
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCACCTTAAGCGACTAGTAAAATTGCACATTAAGACATTACCACAGAAAGTTCTGGAAGCTGG
 GTGCAGTCATCTTTTCTTTTAGTAGTTCTGATTTAATGCAAAGAGAAGTAAGTGTTCAAGTATCCAA
 GGAGGAATCAAAGATGGAGAGGAAGTTGAAAAACAAAAACAAAATGTTGGATTTTATGCTCGAAGCTGTA
 AATAATATTAAGATGCAATGCCAAAGATGCAAAATAGGAGCGCCCATTAAGGAGAATATCGACGTCGCG
 AGAGACCTGTCTGCAAGGGTACTACACAGCCGCGGAGTTGAAGCCGTTTTTGTATCGCCACCTCAGGA
 TTCTAACGCACCTGGTGTCTTGCAAGCCGTTTAAGATCACCCACCTCAGCCCGGAGGAGCAGAAGGAG
 AAAGAGCGAGGGAAACGAAGCACTGCTCAACGCCTTTGCAAGTGACAGAATTTCTCTGCACCGGGACC
 TTGGCCCTGACACCCGACCCTGAATGTATTGAACAAAAATTAAGCGCTGCCCGCCCTGCCTACCAC
 CAGTGTACATAATAGTCTTTCACAATGAAGCATGGTCCACGCTGCTTAGGACCGTCCACAGTGTGCTCTAT
 TCTTACCTGCCATACTGCTGAAGGAGATCATTTTGGTGGATGATGCTAGTGTAGACGACTACCTGCATG
 AAAAGCTGGAGGAATACATAAAACAGTTTTCTATTGTGAAAATAGTCAGGCAGCAAGAAAGGAAAGGCT
 GATCACCGCGCGGTTGCTAGGGGACGCTGAGCAACTGCCGAGACGCTCACGTTCTTAGATGCTCACTGT
 GAGTGTCTCTATGGCTGGCTGGAACCTCTGCTGGCCAGGATAGCTGAGAACTACACTGCCGTGGTGAATC
 CAGACATCGCATCCATAGATCTAAACACATTTGAATCAACAAGCCTTCTCCGTACGAAACAACCATAA
 CCGTGGAAATTTGACTGGAGCCTTTCTTTGGCTGGGAGTCACTTCTGATCATGAGAAGCAAAGAAGG
 AAAGATGAAACCTACCAATTAAGACCCACCTTTGCAGGAGGCCTTTTTCTATATCTAAAAATATT
 TTGAGCACATTGGAAGTTACGATGAAGAAATGGAATCTGGGGAGGTGAAAATATAGAAATGTCATCCG
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 TGGTGTCTTTCCAAAAGATTTGAAATAAAGAAACGCCTTCAAGTGTAAAAATTTTACCTGGTACCTGAAC
 ACTATTTACCGGAAGCGTATGTGCCAGACCTTAATCCTGTTATATCTGGATATATTAAGAGTGTGGGTC
 AACCTTTATGTCTGGATGTTGGTGAAGAATAACAGGGAGGCAACCATTGATTCTGTACACGTGCCACGG
 CCTCGGGGAAATCAGTACTTCGAGTATCTGCTCAGCGTGAATCCGGCACAACATCCAGAAGGAGCTG
 TGTCTTATGCTACTCAGGTGTCTCCAGCTGAAGGCATGTGTCTATAAAGGTCACAGGACCATCGCCC
 CTGGAGAACAGATATGGGAGATTCGGAAGGACCACTTCTATATAATCCATTATTTAAAAATGTGCCTTTC
 ATCAAATGGAGAGCATCCAACTTAGTGCCATGTGACGCAACAGATCTACTCCAAAAATGGATTTTAGC
 CAAAATGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG223895 representing NM_015736
 Red=Cloning site Green=Tags(s)

MAHLKRLVKLHIKRHYHRKFWKLGAVIFFFLVVLILMQREVSQYSKEESKMERNLKNKNKMLDFMLEAV
 NNIKDAMPKMQIGAPIKENIDVRERPCQGYTAAELKPVFDRPPQDSNAPGASGKPFKITHLSPEEQKE
 KERGETKHCNFASFDRISLHRDLGPDTRPPECIEQKFKRCPLPTTSVIVFHNEAWSTLLRVTVHSLVY
 SSPAILLKEIILVDDASVDDYLHEKLEEYIKQFSIVKIVRQQRKGLITARLLGAAVATAETLFLDAHC
 ECFYGWLEPLLARIAENYAVVSPDIASIDLNTFEFNKPSFYGNHNRGNFDWSLSFGWESLPDHEKQRR
 KDETYPIKTPTFAGGLFSISKYFEHIGSYDEEMEIWGGENIEMSFVRVWQCGGQLEIMPCSVVGHVFRSK
 SPHTFPKGTQVIARNQVRLAEVWMDYEKIFYRRNTDAAKIVKQKSFGLSKRFEIKKRLQCKNFTWYLN
 TIYPEAYVVDLNPVVISGYIKSVGQPLCLDVGENNQGGKPLILYTCHGLGGNQYFEYSAQREIRHNIQKEL
 CLHATQGVVQLKACVYKGHRTIAPGEQIWEIRKQQLLYNPLFKMCLSSNGEHPNLVPCDATDLLQKWIFS
 QND

TRTRPLE – GFP Tag – V

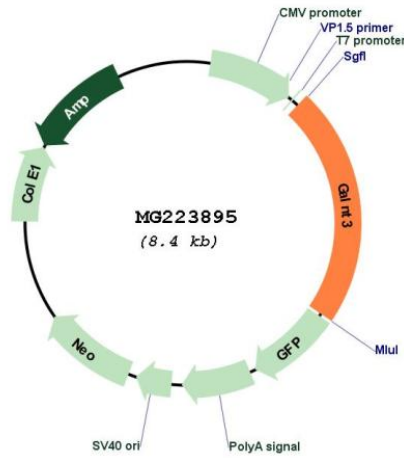
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_015736

ORF Size: 1899 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_015736.2 , NP_056551.2
RefSeq Size:	3684 bp
RefSeq ORF:	1902 bp
Locus ID:	14425
UniProt ID:	P70419
Cytogenetics:	2 C1.3
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 HIV envelope glycoprotein gp120, EA2, Muc2 and Muc5. Glycosylates FGF23 (By similarity). Probably glycosylates fibronectin in vivo. May be involved in phosphate homeostasis.[UniProtKB/Swiss-Prot Function]