

Product datasheet for **MG218613**

Galnt6 (NM_001161768) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt6 (NM_001161768) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galnt6
Synonyms:	4632410F13; AW047994; GalNAc-T6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218613 representing NM_001161768
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGTTGCTACGAAGCGCCACATGTCCCTGCGCCTCGCCATGCTGGGACGCTCTTCATGCTCTTCC
 TCTTCATTTCGGCAGAAGGATGTAAGCAACCAGGAGCAGGCCATGGAGAAACCGTGGCTGAAGTCCCTGGC
 TGGCCAGAAGGACCAGGTCCTGGACTTCATGCTAGGTGCTGTGAACAACATTAGGACGTCATGCCTAAG
 CTGCAGATCCGGGCTCCAGAACCGCCTCAGACTCTGGTCTCCACAAACCACTCCTGCCTGCCCGGTTCT
 ACACCCCTGCTGAGCTGAAACCTTCTGGGACCGCCACCTCAAGATCCCAACAGCCCTGGGGCAGATGG
 AAAAGCATTTCAGAAGAAAGAATGGACCAATCTAGAGACCAAAGAAAAGGAAGGCTATAAGAAACAC
 TGCTTTAATGCATTTGCCAGTGACCGCATCTCCTTGACAGAGTCCCTGGGGCCAGACACCCGGCCTCCTG
 AGTGTGTTGACCAGAAGTCCGGCGCTGCCGCCACTGCCACCACCAGCGTGATCATTGTGCCACAA
 CGAAGCCTGGTCCACTCTGCTGCGCACAGTATACAGCGTCTGCACACCAGCCCTGCCATCTTGCTGAAG
 GAAATCATCCTCGTGGATGACGCCAGCAGATGAGCACCTGAAGGAGAGGCTGGAGCAGTACGTTACAGC
 AGCTGCAGATCGTGCGCGTGGTTCGGCAGCGGGAGCGGAAGGGGCTCATCACAGCCAGGCTGCTGGGGG
 CAGCGTGGCGCAGGCAGAGGTGCTCACGTTCTGGACGCCACTGTGAGTGTTTTACGGCTGGCTGGAG
 CCCCTCCTGGCTCGAATTGCTGAAGACAAGACAGCGGTGGTGAGCCCAGACATCGTACCATCGACCTTA
 ATACCTTCCAATTCTCCAGACAGTACAGAGAGGCAAAGCCACAGCCGGGGCAACTTCGACTGGAGCCT
 GACCTTCGGCTGGGAAATGCTTCTGAGCAGAGAAGCAGAGACGCAAGGATGAGACCTACCCATCAAG
 TCCCGACGTTTCCGGCGGCCCTCTTCTCCATCTCCAAGGCCACTTTGAGCACATCGGTACCTATGATA
 ACCAGTGGAGATCTGGGAGGGGAGAATGTGAAATGTCTTCCGGGTGTGGCAGTGTGGGGCCAGCT
 GGAAATAATCCCCTGCTCGGTGGTCGGCCACGTGTTCCGTACCAAGAGTCCCACACCTTCCCAAGGGC
 ACCAGTGTATTGCGCGCAATCAGGTGCGCCTGGCTGAGGTCTGGATGGACGACTATAAGAGATTTTCT
 ACAGGAGAAATCTGCAGGCAGCAAAGATGGTCCAGGAGAACAACCTCGGTGACATCTCGGAGCGACTTCG
 GCTCAGGGAGCAGCTACGATGCCACAACCTCTCCTGGTACCTGCACAATGTCTACCCAGAGATGTTTGT
 CCCGACCTGAACCCACCTTCTATGGAGCCATCAAGAATCTTGGACCAATCAGTGTGGAGCTGGGGC
 AGAACAACCGGGAGGAAAGCCTCTCATCATGTATGTCTGCCACAACCTCGGCGCAATCAGTACTTTGA
 GTACACATCACAGAGGGACCTCCGCCACAACATGGAAAGCAGCTGTGTCTACATGCCAGTGGGAGCAGC
 CTCGGCCTTAGGAGCTGTGAGTTCGTTGGCAAAAACAGCAGAGTGCCCAAGGACGAGGAGTGGGAATTGA
 CCCAGGATCAACTCATCAGAAACTCAGGATCTGGTACCTGCCTGACATCCCAGGACAAAAAGCCAGCCAT
 GGCCCCCTGTAATCCCAGGGATCCCTACCAGCTCTGGCTGTTTGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG218613 representing NM_001161768
 Red=Cloning site Green=Tags(s)

MRLLRRRHMSLRRLAMLGSVFMLFLFIRQKDVSNQEQAMEKPWLKSLAGQKQVLDVDFMLGAVNNIRDVMPK
 LQIRAPEPPQTLVSTNHSCLPGFYTPAELKPFWDRPPQDPNSPGADGKAFQKKEWTNLETKEKEEGYKHH
 CFNAFASDRISLQRSLGPDTRPPECVDQKFRRCPLPTTSVIVFHNEAWSTLLRVTVYVSVLHTSPAILLK
 EIILVDDASTDEHLKERLEQYVQQLQIVRVVRQERKGLITARLLGASVAQAEVLTFLDAHCECFHGWLE
 PLLARIAEDKTAVVSPDIVTIDLNTFQFSRPVQRGKAHSRGNFDWSLTFGWEMLPEHEKQRRKDETYPIK
 SPTFAGGLFSISKAYFEHIGTYDNQMEIWGGENVEMSFVWQCGGQLEIIPCSVGVHVFRTKSPHTFPKG
 TSVIARNQVRLAEVWMDYKIFYRRNLQAAKMVQENNFGDISERLRLREQLRCHNFSWYLNHNVPPEMFV
 PDLNPTFYGAIKNLGTNQCLDVGENNRGKPLIMYVCHNLGGNQYFEYTSQRDLRHNIGKQLCLHASGST
 LGLRSCQFVGKNSRVPKDEEWELTQDQLIRNSGSGTCLTSQDKKPAMAPCNRPDPYQLWLFV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_001161768.1 , NP_001155240.1
RefSeq Size:	5712 bp
RefSeq ORF:	1869 bp
Locus ID:	207839
UniProt ID:	Q8C7U7
Cytogenetics:	15 F1
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. May participate in synthesis of oncofetal fibronectin. Has activity toward Muc1a, Muc2, EA2 and fibronectin peptides (By similarity).[UniProtKB/Swiss-Prot Function]