

Product datasheet for **MG209037**

Galnt12 (NM_172693) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galnt12 (NM_172693) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galnt12
Synonyms:	9130206E10; A630062B03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209037 representing NM_172693
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGGGCGTGCGGT**GAGGAGCGCTGCCCGGGGGCTGCGGCGCGCCGGGAGGCGTTGCTGGCAC**
TGCTGGCCCTGGCAGGGCTGGGCGCGCTGCTGCGGGCTCGAAGCAGGTCGGGGACGGTGGACCCGGGACC
CCCGCGGACTCCTCTCCCGGGCGTACAGGCCAGTGCTGCCAGGCCGCGCTGCCCGCGATGCTCTG
GGAGCGCATGGGAGGCGGTGCGGCTGCAGCTGCAGGGCGAGGAGCTGCGGCTGCAGGAGGAGCGTGA
AGCAGCACCAGATCAACATCTATCTGAGCGACCGTATCTCGTGCACCGCGACTGCCGAGCGCTGGAA
CCCTCTGTGCAGAGAGGTGAAATACGATTATGATAACCTGCCAAGACTTCTGTTGTCATAGCATTTTAT
AATGAAGCCTGGTCCACTCCTTCGGACAGTTTACAGTGTCTTGAGACCTCCCCTGACATCCTGCTGG
AGGAGTCACTTCTGGTAGATGACTACAGCGACAGAGACCTAAAGAACGCTTGGCCAACGAGCTGTC
ACAGCTCCCAAGGTGCGCTGATCCGTCTAGCAGGAGAGAGGGCTAGTGCAGCCCGGCTACTGGGA
GCCTCTGCGGCCAGGGGCGAAGTCTGACTTCCCTAGACTGTCACTGTGAATGTCATGAGGGGTGGCTGG
AGCCTCTGCTGCAGAGGATCCACGAGAAGGAGTCCGCAGTCGTGTGCCCTGTTATCGATGTGATTGACTG
GAACACCTTTGAGTACCTGGGCAACTCGGGAGAGCCGAGATTGGCGGCTTTGACTGGCGGCTGGTATTC
ACGTGGCACGTGGTTCCCGAGCGGGAGCGGAGTGCATGCGGTCGCCGATCGATGTTATCAGGTCTCCAA
CTATGGCTGGGGGCTGTTTGTGTGAGTAAGAGATATTTGATTATCTGGGGTCTTACGATACAGGAAT
GGAAGTCTGGGGAGGAGAAAACCTTGAATCTCCTTTAGGATCTGGCAGTGTGGTGGCACTCTGAAACG
CACCCGTCTCCCATGTGGGCCAGTCTCCCTAAGCAAGCTCCCTATCCCGTAGCAAGGCCCTGGCCA
ACAGTCTCCGAGCTGCAGAAGTGGATGGATGAATTTAAGAAGCTCTACTACCACCGCAATCCCAGCG
CCGCCTGGAACCCCTTGGGGACGTGACAGAGAGGAAGAAGCTTCGGGCTAAGCTCCAGTGTAAAGACTTC
AAGTGGTCTTAGATACAGTGTACCCAGAATTGCAGTGCAGAGGACAGGCCTGGCTTCTTTGGGATGC
TCCAGAACAGAGGCTAAGAGGGTACTGCCTTGACTACAATCCTCCCAATGAAAACCATGTTGAAGGCCA
CCAGGTCTTCTGTACCTCTGCCATGGGATGGGTGAGAACCAGTTTTTTCGAGTATACGACCCGAAAGAA
ATACGCTATAACACCCGCCAGCCGAGCCTGCATCACCGTGGAGGACGGGAAGGATACCCTTGTATGG
ATCTCTGCCGAGAGACCGTCCCAGAGAACCAGGAGTTCATCTACAGGAGGATGGCACTTTAGTTACAA
GCACAGCAGGAAATGTGTGGAGGCCACAGAGAAGGTGTTAGACAACGGCTTTCACCATACTTACGGGAC
TGTACCAACTCAGATAACCAGAGGTGGTCTTCAAGGAGCGCATGTCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209037 representing NM_172693
 Red=Cloning site Green=Tags(s)

MWGRAVRRRCPRGLRRGREALLALLALAGLGALLRARSRSRGTVDPGPPRTPLPGRHEPVLPRPPLPADAL
 GAHGEAVRLQLQGEELRLQEESVKQHQINIYLSDRISLHRRPERWNPLCREVKYDYDNLPKTSVVIIFY
 NEAWSTLLRVTYSVLETSPDILLEEVILVDDYSDREHLKERLANELSQLPKVRLIRASRREGLVRRLLG
 ASAARGEVLTFLDCHCEHEGWLEPLLQRIHEKESAVVCPVIDVIDWNTFEYLGNSGEPQIGGFDWRLVF
 TWHVVPQRRERQSMRSPIDVIRSPTMAGGLFAVSKRYFDYLGSYDTGMEVWGGENLEFSFRIWQCGGTLET
 HPCSHVGHVFPKQAPYSRSKALANSVRAAEVWMDEFKELYYHRNPQARLEPFGDVTERKKLRKQLQCKDF
 KWFLDTVYPELVHPEDRPGFFGMLQNRGLRGYCLDYNPPNENHVEGHQVLLYLCHGMGQNF FEYTRKE
 IRYNTRQPEACITVEDGKDTLVMDLCRETVPENQEFILQEDGTLVHKHSRKCVEATEKVL DNGFAPYL RD
 CTNSDNQRWFFKERMS

TRTRPLE - GFP Tag - V

Restriction Sites:

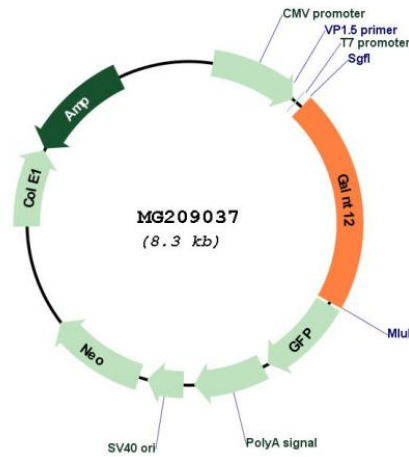
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_172693
 ORF Size: 1728 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_172693.4
RefSeq Size:	2216 bp
RefSeq ORF:	1731 bp
Locus ID:	230145
UniProt ID:	Q8BGT9
Cytogenetics:	4 B1
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 non-glycosylated peptides such as Muc5AC, Muc1a and EA2, and no detectable activity with Muc2 and Muc7. Displays enzymatic activity toward the Gal-NAc-Muc5AC glycopeptide, but no detectable activity to mono-GalNAc-glycosylated Muc1a, Muc2, Muc7 and EA2. May play an important role in the initial step of mucin-type oligosaccharide biosynthesis in digestive organs (By similarity).[UniProtKB/Swiss-Prot Function]