

Product datasheet for **MG215821**

B4galt2 (NM_017377) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: B4galt2 (NM_017377) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: B4galt2
Synonyms: Ggtb2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG215821 representing NM_017377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCAGACTGCTGGGGGGACGCTGGAGCGGGTCTGCAAGGCTGTGCTCCTTCTCTGCCTGCTGCACT
 TCCTTGTGGCCGTCATCCTCTACTTTGACGTCTATGCCAGCACCTGGCCTTTTTTCAGCCGCTTCAGTAC
 CCGAAGCCAGCCATGCCCTCTACCCTGCAGCCAGCAGCAGTACCAACTGCTCTCGGCCAACGCCACT
 GCCGCTAGCTCCGGGCTGCTGAAGTGCCAGTGCCAGGCTGGTCCCACAGCTCCAGTCATTCCGCCCT
 GTCTGACGTGCCGCTGGTCTTGTGGCCGAGTGGTCATCGAATTCACCTCACCCATGCCTCTGGAACG
 GGTGCAGAGGGAAAATCCAGGCGTGTCTCTGGGCGCCGCTATTCTCCACCCGACTGCACCCAGCCCAA
 ACGGTGGCAGTCATATCCCTTTAGACACCGGGAGCACCACTACGCTATTGGCTCCACTATCTGCACC
 CCATGTTGAGGCGGCAGCGGCTGCGCTACGGTGTCTATGTATCAACAGCATGGCGAGGAGACCTTCAA
 CCGAGCCAAGCTGCTCAACGTGGGCTTCTAGAGGCACTGAAGGAGGATGCTGCCTATGACTGCTTCATC
 TTCAGTGATGTGGACCTGGTCCCTATGGATGACCGCAATCTGTACCGTTGTGGTACCAGCCCGCCACT
 TTGCCATCGCCATGGACAAGTTTGGCTTCCGGTTGCCCTATGCTAGCTACTTTGGAGGTGTCTCGGGCT
 GAGCAAGGCCAGTTTCTGAGGATCAATGGCTTCCCAACGAGTACTGGGGCTGGGTGGCGAGGATGAT
 GACATCTTCAACCGGATCTCCCTGACTGGGATGAAGATCTCACGCCGGATGCTCCGATTGGCCGCTACC
 GCATGATCAAGCACGACCGGGACAACATAACGAGCCCAACCCTCAGAGGTTTAATAAGATTCAAACAC
 AAAGATGAGCATGAAGTGGGACGCATTGGATCCGTGCGTACCGAGTCTTGAAGTGTCTCGGCAACCG
 CTCTTACCAACATCACAGTGGACATTGGACAGCCATGTCTGGCTCACTCAAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG215821 representing NM_017377
Red=Cloning site Green=Tags(s)

MSRLGGTLERVCKAVLLLCLLHFLVAVILYFDVYAQHLAFFSRFSTRSPAHALYPAASSSTNCSRPNAT
 AASSGLPEVPSARPGPTAPVIPPCPDVPPGLVGRVVIEFTSPMPLERVQRENPGVLLGGRYSPDCTPAQ
 TVAVIIPFRHREHLLRYWLHYLHPMLRRQRLRYGVYVINQHGEETFNRAKLLNVGFLEALKEDAAYDCF I
 FSDVDLVPMDDRNL YRCGDQPRHFAIAMDKFGFRLPYASYFGGVSGLSKAQFLRINGFPNEYWGWGGEDD
 DIFNRIISLTGMKISRDPVRIGRYRMIKHDRDKHNEPNPQRFNKIQNTKMSMKWDGIGSVRYRVLEVSQP
 LFTNITVDIGQPMSWLTQG

TRTRPLE - GFP Tag - V

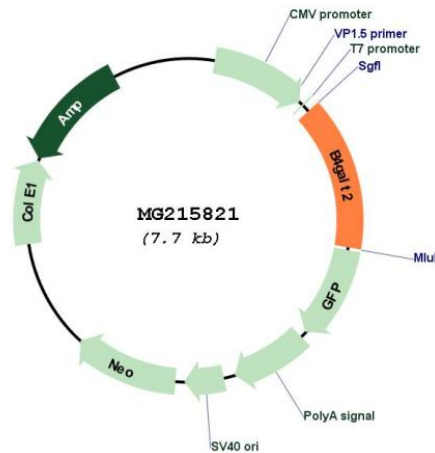
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_017377

ORF Size:	1107 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_017377.5 , NP_059073.1
RefSeq Size:	2432 bp
RefSeq ORF:	1110 bp
Locus ID:	53418
UniProt ID:	Q9Z2Y2
Cytogenetics:	4 D2.1
Gene Summary:	Responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. Can produce lactose (By similarity).[UniProtKB/Swiss-Prot Function]