

Product datasheet for **MG216007**

B4galnt2 (NM_008081) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	B4galnt2
Synonyms:	AI593864; Dlb-1; Dlb1; Galg2; Galgt2; Ggm3; Igf2bp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG216007 representing NM_008081
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACTTCCAGCGTGTCTTTTCCAGCTTCAGGTTCCATGGCTCCTCAAGACATTTGTCCTCATGGTAG
 GACTTGCCACTGTTGCGTTTATGGTGAGAAAGGTGCCCTTACAACAGACTTCAGCACCTTCAAGCCAAA
 GTTCCAGAGCCTGCAAGGGTTGACCCAGTGCTGAAGCTTCTACCAGAGGAGCATCTGAGGAACTCTTT
 ACCTACAGTGACATCTGGCTCTTCCCAAAAAATCAGTGTGACTGTAACCTGGCAAACCTGCGAATGAAAT
 ATAAGTTTCAGGATGCCATAACCAGAAGGACCTCCAGCTGTGAATGCCAGAAGACAGGCAGAATTTGA
 GCACTTTCAGAGGAGAGAAGGGCTGCCTCGCCACCACCTCTGCTGGCTCCACCAATCTCCCTTCGGA
 TACCCAGTCCATGGTGTGGAGGTGATGCCCTGCATACAATTCTCATCCAGGCCTCCAGTATGAAGGGC
 CAGATGCTCCAGTCTATGAGGTCATCTGAAAGCTTCTCTGGGGACACTGAACACCCTTGCTGATGTGCC
 AGATGATGAGGTTGAGGCAGAGGCCAGAGGCAGCTGACCATTTCCACCAGACATCGGAAGTCTCGAAT
 TTCATCCTTCAGCATGTGACGTACACCAGCACAGAGTACTATCTCCACAAGGTGGACACAGTAAGTATGG
 AATACGAGTCGTACAGTGGCCAAGTTTCCAGTGACTATCAAACAACAGACTGTACCCAAGTTGATGACCC
 TGGACCTGAGAGGAAGATCAGAAACCTGGTGACCATTGCCACGAAGACTTTTCTCCGTCGCCACAAGCTT
 AAGACTCTGCTTCAGAGTATTCGAAAATATTACCCAGACATTACCGTGATTGTAGCTGATGACAGCAAGG
 AGCCCTGGAAAATTAATGATGACTACGTGGAGTACTACACCATGCCCTTGGGAAGGGCTGGTTTGTCTGG
 GAGGAACCTGGCCATCTCACAGGTGACTACTAAATATGTCCTCTGGGTGGACGATGACTTTCTTTCAGC
 GACAAGACCAAGATTGAGGTAAGTGGTGTGCTGGAGAAAACCGAAGTGGATGGTGGTGGCGGCAGCG
 TGCAGGGGAATACTTACCAGTTCAGGCTGCTGTATGAACAGACCAAGAATGGGAGCTGTCTTACCAGAG
 GTGGGGATCATTCCAGGCCCTTGACGGCTTCCCGGATGCACGTTGACCAGCGCGTGGTGAACCTCTTC
 TTGGCTCACACGGAACAACTCCGAAGAGTTGGTTTTGATCCCATCTTGCAACGAGTGGCCACGGAGAGT
 TCTTTATTGATGGGCTGGGAGACTGTTGGTGGGCTCTTGCCTGGGTGTAATTATAAACCAAGTAAG
 AACACCACCAAGGATCCAAGCTGGCTGCCTTGGAGAAGACTTATGACAAATACCGGCCAACACCAAT
 TCTGTGATCCAATTCAAGGTTGCACTCCAGTACTCAAGAACCATCTCTACTGCTCCACT

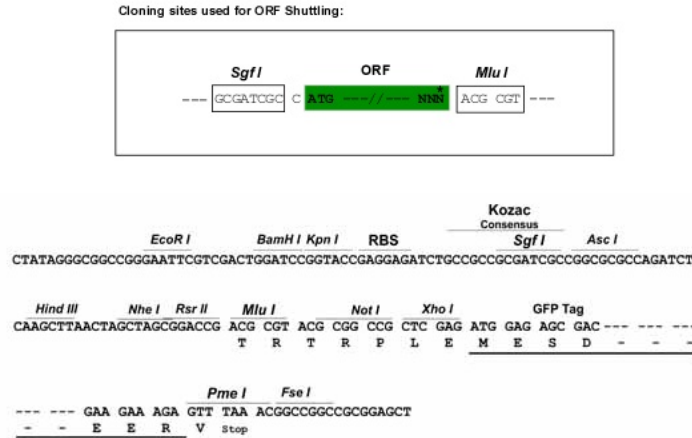
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >MG216007 representing NM_008081
 Red=Cloning site Green=Tags(s)

MTSSVSFASFRFPWLLKTFVLMVGLATVAFMVRKVSLTDFSTFKPKFPEPARVDPVLKLLPEEHLRKL
 TYSDIWLFPKNQDCNSGKLRMKYKFQDAYNQKDLPAVNARRQAEFEHFQRREGLPRPPPLAPPNLPFG
 YPVHGVEMPLHTILIPGLQYEGDPAPVYEVILKASLGLNLTADVDPDEVQGRGQRQLTISTRHRKVLN
 FILQHVTYVSTEYLLHKVDTVSMEYESSVAKFPVTIKQQTVPKLYDPGPERKIRNLVTIATKTLFRPHK
 KILLQSIRKYYPDITVI VADDSKEPLEINDDYVEYYTMPFGKGFAGRNLAISQVTTKYVLWDDDFLFS
 DKTKIEVLVDVLEKTELDVVGGSVQNTYQFRLLYEQTKNGSCLHQRWGSFQALDGFPGCTLTSGVVNFF
 LAHTEQLRRVGFDPILQRVAHGEFFIDGLGRLLVGSCPVIINHQRVTPPKDPKLAALEKTYDKYRANTN
 SVIQFKVALQYFKNHLYCST

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_008081

ORF Size: 1530 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_008081.1](#)

RefSeq Size: 4086 bp

RefSeq ORF: 1533 bp

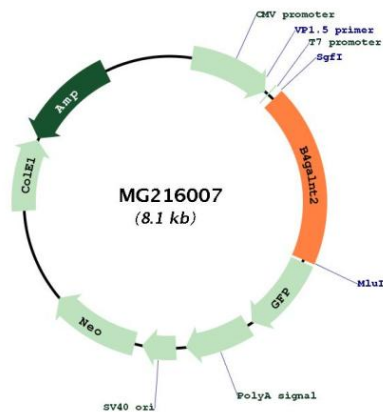
Locus ID: 14422

UniProt ID: [Q09199](#)

Cytogenetics: 11 59.02 cM

Gene Summary: Responsible for synthesis of murine T-lymphocyte CT antigen. Can transfer N-acetylgalactosamine moiety from UDP-GalNAc to the low molecular weight acceptor 3'-sialyl-N-acetylglactosamine, to form a non-reducing terminal tetrasaccharide Sda blood group structure.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216007