

Product datasheet for **MG204088**

Mgat4b (BC031613) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat4b (BC031613) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mgat4b
Synonyms:	AA407995; GnTIVb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204088 representing BC031613 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTATGCACAGTCCAAAGGCATCTACTATGTGCAGCTGGAGGATGACATTGTAGCCAAGCCCAACT
ACTTGAGCACTATGAAGAACTTTGCCCTCCAGCAGCCCTCCGAGGACTGGATGATCCTGGAGTTCTCGCA
GTTGGGCTTCATTGGGAAGATGTTCAAGTCACTGGATCTGAGCCTGATTGTGGAGTTCATCCTCATGTT
TACCGGGACAAGCCCATAGACTGGCTCCTGGACCACATCCTGTGGGTGAAAGTCTGCAACCCGTGAGAAGG
ATGCGAAACATTGTGATCGGCAGAAGGCCAACCTTCGGATCCGCTCAAGCCGTCCTTTCCAGCATGT
GGGCACTCACTCACTGGCGGGCAAAATCCAGAACTGAAGGATAAAGACTTTGGAAAGCATGCTCTC
CGGAAGGAGCACGTGAACCCACCGCAGAGGTGAGCACAAAGCCTCAAGACGTACCAGCATTTCCACCTGG
AGAAGGCCTACTTGCGGGAGGATTTCTTCTGGCCTTCACACCTGCCGCAGGAGACTTTATCCGGTCCG
CTTCTCCAGCCACTGCGCCTTGAGCGGTTCTTCTCCGAAGCGGGAACATCGAGCACCCGGAAGATAAG
CTTTCAACACTTCTGTGGAGGTGCTGCCCTTTGATAACCCCAAGTCAAGAGGAGGCCCCTTCAGGAAG
GCCGCTCAGCCACTCTCCGGTACCCTAGGAGCCAGATGGATACCTCCAGATTGGCTCCTTCTACAAGGG
TGTAGCTGAAGGAGAAGTGGATCCTGCCTTTGGCCCCCTGGAAGCACTACGTCTCTCCATTACAGACTGAC
TCCCGGTGTGGGTCATTTTGAGTGAGATCTTTCTGAAAAAGCCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204088 representing BC031613
 Red=Cloning site Green=Tags(s)

MMYAQSKGIYYVQLEDDIVAKPNYLSTMKNFALQQPSEDWMILEFSQLGFIGKMFKSLDLSLIVEFILMF
 YRDKPIDWLLDHILWVKVCNPEKDAKHCDRQKANLRIRFKPSLFQHVGTSSLAGKIQKLKDKDFGKHAL
 RKEHVNPPAEVSTSLKTYQHFTLEKAYLREDFFWAFTPAAGDFIRFRFFQPLRLERFFFRSGNIEHPEDK
 LFNTSVEVLPFDNPQSEKEALQEGRSATLRYPRSPDGYLQIGSFYKGVAEGEVDPAFGPLEALRLSIQTD
 SPVWVILSEIFLKKAD

TRTRPLE - GFP Tag - V

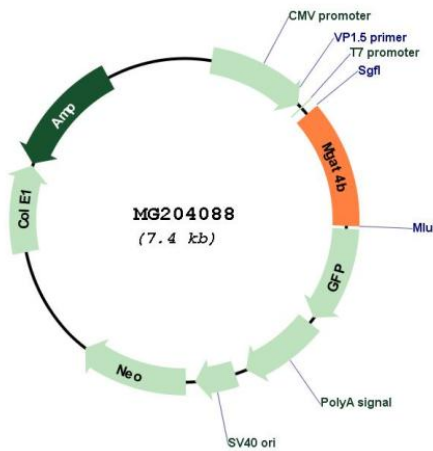
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC031613

ORF Size: 890 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:	BC031613 , AAH31613
RefSeq Size:	1426 bp
RefSeq ORF:	890 bp
Locus ID:	103534
Cytogenetics:	11 B1.3
Gene Summary:	Glycosyltransferase that participates in the transfer of N-acetylglucosamine (GlcNAc) to the core mannose residues of N-linked glycans. Catalyzes the formation of the GlcNAc β 1-4 branch on the GlcNAc β 1-2Man α 1-3 arm of the core structure of N-linked glycans. Essential for the production of tri- and tetra-antennary N-linked sugar chains. Has lower affinities for donors or acceptors than MGAT4A, suggesting that, under physiological conditions, it is not the main contributor in N-glycan biosynthesis (By similarity). [UniProtKB/Swiss-Prot Function]