

Product datasheet for **MG219367**

Mgat4b (NM_145926) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat4b (NM_145926) 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)



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ORF Nucleotide Sequence:

>MG219367 representing NM_145926
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTCCGCAATGGCACCTTCTGACGCTGCTGCTTCTGCTTGTGCGCCTTCTCTCGTCTCTCT
 GGTACGCAGCGCTCAGCGGCCAGAAAGGTGACGTGGTGGACATTTACCAGCGCGAGTTCTGGCTCTGCG
 AGACCGTTTGACCGGGCTGAGCAAGAGAGCCTGAAGCGCTCCAAGGAGCTAAACCTGGTCTGGAAGAA
 ATCAAGAGGGCAGTATCCGAGAGGCAAGCGCTGCGGGACGGAGAAGGCAATCGCACTTGGGGCCGCTAA
 CAGAGGATCCGCGACTGAAGCCGTGGAACGTCTCGCACAGGCACGTACTTCATCTGCCACCCTTCCA
 CCATCTGCCGCACCTGCTGGCTAAGGAGAGCAGTCTGCAGCCGAGTGCAGTGGGCCAGGGCCGACC
 GGAGTATCCGTGGTATGGGCATTCGAGCGTACGGCGGAGGTGCACTCGTACTTGACTGACACATTGC
 ACTCGCTCATCTCGGAGCTGAGCCCGCAGGAGAAGGAAGACTCAGTCATCGTGGTCTGATCGCCGAGAC
 TGACCCACAGTACACTTCGGCAGTGACAGAGAACATCAAGGCCTTGTTCACACAGAGATCCATTCTGGG
 CTCTGGAAGTCACTCCCTTCCCTCACTTCTACCCTGACTTCTCCCGCCTTCGAGAGTCTTTGGGG
 ACCCAAGGAGAGAGTCAGGTGGAGGACAAACAGAACCTCGATTACTGCTTCTCATGATGATGCACA
 GTCCAAAGGCATCTACTATGTGCAGCTGGAGGATGACATTGTAGCCAAGCCCACTACTTGAGCACTATG
 AAGAACTTTGCCCTCCAGCAGCCCTCCGAGGACTGGATGATCCTGGAGTTCTCGCAGTTGGGCTTCA
 TGGAGATGTTCAAGTCACTGGATCTGAGCCTGATTGTGGAGTTTCACTCATGTTCTACCGGACAAGCC
 CATAGACTGGCTCCTGGACCACATCCTGTGGGTGAAAGTCTGCAACCTGAGAAGGATGCGAAACATTGT
 GATCGGCAGAAGGCCAACCTTCGGATCCGCTTCAAGCCGTCCTTTTCCAGCATGTGGGCACTCACTCAT
 CACTGGCGGGCAAAATCCAGAAACTGAAGGATAAAGACTTTGAAAGCATGCTCTCCGGAAGGAGCAGT
 GAACCCACCGGCAGAGGTGAGCACAAGCCTCAAGACGTACCAGCATTTCCACCTGGAGAAGGCCTACTTG
 CGGGAGGATTTCTTCTGGCCTTCAACCTGCCGAGGAGACTTTATCCGTTCCGCTTCTTCCAGCCAC
 TGCGCCTTGAGCGGTTCTTCTCCGAAGCGGGAACATCGAGCACCCGGAAGATAAGCTCTTCAACTTTC
 TGTGGAGGTGCTGCCCTTGATAACCCCAAGTCAAGAGAAGGAGGCCCTTCCAGGAAGGCCGCTCAGCCACT
 CTCCGGTACCCTAGGAGCCAGATGGATACCTCCAGATTGGCTCCTTCTACAAGGTGTAGCTGAAGGAG
 AAGTGGATCCTGCCTTTGGCCCCCTGGAAGCACTACGTCTCTCCATTGACTGACTCCCGGTGTGGGT
 CATTTTGAGTGAATCTTCTGAAAAAGGCCGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG219367 representing NM_145926
 Red=Cloning site Green=Tags(s)

MRLRNGTFLTLFLCLCAFLSLSWYAALSGQKGDVVDIYQREFLALRDRLHAAEQESLKRKELNLVLEE
 IKRAVSEKQALRDGEGNRTWGRLTEDPRLKPWNVSHRHLHLPTVFHHLPHLLAKESSLQPAVRVGGQRT
 GVSVMGIPSVRREVHSLTDTLHSLISELSPQEKEDSVIVVLAETDPQYTSAVTENIKALFPTEIHS
 LLEVISPSPHFYPDFSRLRESFGDPKERVWRWKQNLDYCFLLMYAQSKGIYYVQLEDDIVAKPNYLSTM
 KNFALQQPSEDWMILEFSQLGFIGKMFKSLDLSLIVEFILMFYRDKPIDWLLDHILWVKVCPKDAKHC
 DRQKANLIRFKPSLFQHVGHSSLAGKIQKLDKDFGKHALRKEHVNPPAEVSTSLKTYQHFTLEKAYL
 REDFFWAFTPAAGDFIRFRFFQPLRLERFFRSGNIEHPEDKLFNTSVEVLPFDNPQSEKEALQEGRSAT
 LRYPRSPDGYLQIGSFYKGAEGEVDPAFGPLEALRLSIQTDSPVWVILSEIFLKKAD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_145926
ORF Size:	1644 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_145926.3 , NP_666038.3
RefSeq Size:	2429 bp
RefSeq ORF:	1647 bp
Locus ID:	103534
UniProt ID:	Q812F8
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]