

## Product datasheet for **MG216836**

### Mgat1 (NM\_001110148) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat1 (NM_001110148) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mgat1
Synonyms:	Mgat-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG216836 representing NM\_001110148  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGAAGAAGCAGACTGCAGGGCTTGTGCTTTGGGGTCTATCATCTTTGTGGCTGGAATGCCCTGC  
 TGCTTCTCTTCTTCTGGACACGCCAGCACCTGGCAGGCTGCCCTCAGACAGCGCCTTGGTGATGACCC  
 TGCCAGCCTCACCCGTGAGGTATCCACCTGGCCGAGGACGCTGAGGCGAGTTGGAGCGCAGAGGGGA  
 CTGTTGCAGAAATCAAGGAGCATTATGCTTTGTGGAGGACAGGTTGAGAGTCCCACTGTGGCCCTC  
 CAGCCTGGCCCGTGTGCTGTGACCCCTCACCAGTGCAGATCCCCATCCTGGTCATTGCTGTGACCC  
 CAGCACTGTCCGGCGTCTTGGATAAGTTGTTGCACTATCGGCCCTCAGCTGAGCGTTTCCCCATTATT  
 GTCAGTCAGGACTGTGGGCATGAAGAGACAGCACAGGTCATTGCTTCTATGGCACTGCAGTCACACACA  
 TCCGGCAGCCGGACCTGAGTAACATTGCCGTGCAGCCAGACCACCGAAGTCCAGGGTTACTACAAGAT  
 TGCCAGGCACTACCGCTGGGCACTAGGCCAGATTTCAACAAGTCAAGTCCCGCCGCTGTGGTAGTG  
 GAGGATGATCTGGAAGTGGCACCAGACTTCTTTGAGTACTTCCAGGCCACCTACCCACTGCTGAGAACAG  
 ACCCTCCCTTTGGTGTGTCTGCTTGAATGACAATGGCAAGGAGCAGATGGTAGACTCAAGCAAACC  
 TGAGCTGCTCTATCGAACAGACTTTTTTCTGGCCTTGGATGGCTGCTGTTGGCTGATCTGTGGGCAGAG  
 CTGGAGCCCAAGTGGCCAAGGCCTTTTGGGACGACTGGATGCGCCGACCTGAGCAGCGAAAGGACGGG  
 CTTGTATTCGTCAGAAATTTCAAGAACTATGACCTTTGGTCGAAGGGTGTGAGCCACGGGCAGTTCTT  
 TGACCAGCATCTTAAGTTCATCAAGCTGAACCAGCAGTTCGTCCCTTCACCCAGTTGGACCTGTGCTAC  
 CTGCAGCAGGAGCCATGACCCGGACTTCCTCGCCAGGTCTATGGTCCCCCAGCTACAGGTGGAGA  
 AAGTAAGGACCAATGATCAGAAGGAGCTGGGGGAGGTGCGGGTACAGTACACTAGCAGAGACAGCTTCAA  
 GGCTTTGCTAAGGCCCTGGGTGTCATGGATGACCTCAAGTCTGGTGTCCCCAGGGCTGGCTACCGTGGC  
 ATTGTCACCTTCCAGTTTGGGGCCGGCTGTGCACCTGGCACCCCCACAGACATGGACTGGCTATGATC  
 CTAGCTGGAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG216836 representing NM\_001110148  
 Red=Cloning site Green=Tags(s)

MLKKQTAGLVWGAIIIFVGNALLLFFWTRPAPGRLPSDSALGDDPASLTREVIHLAEDAEELERQGR  
 LLQQIKEHYALWRQRWRVPTVAPPAPRPVPTSPVQIPILVIACDRSTVRRCLDKLLHYRPSAERFPII  
 VSQDCGHEETAQVIASYGTAVTHIRQPDLSNIAVQPDHRKFQGYK IARHYRWALGQIFNKFPPAAVVV  
 EDDLEVAPDFFEYFQATYPLLRDPSLWCVSAWNDNGKEQMVDSSKPELLYRTDFPGLWLLADLWAE  
 LEPKWPKAFWDDWMRRPEQRKGRACIRPEISRTMTFGRKGVSHGQFFDQHLKFIKLNQFVPFTQLDLSY  
 LQQEAYDRDFLAQVYGAPQLQVEKVRTNDQKELGEVRVQYTSRDSFKAFKALGVMDLKGVPFRAGYRG  
 IVTFQFRGRRVHLAPPQTWTGYDPSWN

**TRTRPLE** - GFP Tag - V

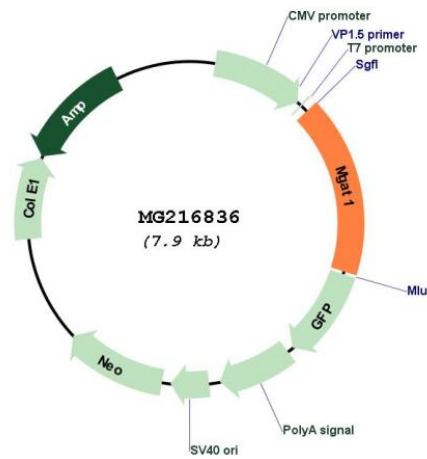
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001110148

ORF Size: 1341 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001110148.1</a></u> , <u><a href="#">NP_001103618.1</a></u>
<b>RefSeq Size:</b>	3165 bp
<b>RefSeq ORF:</b>	1344 bp
<b>Locus ID:</b>	17308
<b>UniProt ID:</b>	<u><a href="#">P27808</a></u>
<b>Cytogenetics:</b>	11 29.27 cM
<b>Gene Summary:</b>	Initiates complex N-linked carbohydrate formation. Essential for the conversion of high-mannose to hybrid and complex N-glycans.[UniProtKB/Swiss-Prot Function]