OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG219048

Mgat1 (NM_001110150) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat1 (NM_001110150) 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)

View online »

ORF Nucleotide Sequence:

>MG219048 representing NM_001110150
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGAAGAAGCAGACTGCAGGGCTTGTGCTTTGGGGTGCTATCATCTTTGTGGGCTGGAATGCCCTGC
TGCTTCTCTTCTTCTGGACACGCCCAGCACCTGGCAGGCTGCCCTCAGACAGCGCCCTTGGTGATGACCC
TGCCAGCCTCACCCGTGAGGTCATCCACCTGGCCGAGGACGCTGAGGCGGAGTTGGAGCGGCAGAGGGGA
CTGTTGCAGCAAATCAAGGAGCATTATGCTTTGTGGAGGCAGAGGTGGAGAGTTCCCACTGTGGCCCCTC
CAGCCTGGCCCCGTGTGCCTGTGACCCCCTCACCAGTGCAGATCCCCATCCTGGTCATTGCCTGTGACCG
CAGCACTGTCCGGCGCTGCTTGGATAAGTTGTTGCACTATCGGCCCTCAGCTGAGCGTTTCCCCATTATT
GTCAGTCAGGACTGTGGGCATGAAGAGACAGCACAGGTCATTGCTTCCTATGGCACTGCAGTCACACACA
TCCGGCAGCCGGACCTGAGTAACATTGCCGTGCAGCCAGACCACCGCAAGTTCCAGGGTTACTACAAGAT
TGCCAGGCACTACCGCTGGGCACTAGGCCAGATCTTCAACAAGTTCAAGTTCCCGGCCGCTGTGGTAGTG
GAGGATGATCTGGAAGTGGCACCAGACTTCTTTGAGTACTTCCAGGCCACCTACCCACTGCTGAGAACAG
ACCCCTCCCTTTGGTGTGTGTCTGCTTGGAATGACAATGGCAAGGAGCAGATGGTAGACTCAAGCAAACC
TGAGCTGCTCTATCGAACAGACTTTTTTCCTGGCCTTGGATGGCTGCTGTTGGCTGATCTGTGGGCAGAG
CTGGAGCCCAAGTGGCCCAAGGCCTTTTGGGACGACTGGATGCGCCGACCTGAGCAGCGGAAAGGACGGG
CTTGTATTCGTCCAGAAATTTCAAGAACTATGACCTTTGGTCGCAAGGGTGTGAGCCACGGGCAGTTCTT
TGACCAGCATCTTAAGTTCATCAAGCTGAACCAGCAGTTCGTCCCCTTCACCCAGTTGGACCTGTCGTAC
CTGCAGCAGGAGGCCTATGACCGGGACTTCCTCGCCCAGGTCTATGGTGCCCCCCAGCTACAGGTGGAGA
AAGTAAGGACCAATGATCAGAAGGAGCTGGGGGAGGTGCGGGTACAGTACACTAGCAGAGACAGCTTCAA
GGCCTTTGCTAAGGCCCTGGGTGTCATGGATGACCTCAAGTCTGGTGTCCCCAGGGCTGGCTACCGTGGC
ATTGTCACTTTCCAGTTTCGGGGCCGGCGTGTGCACCTGGCACCCCCACAGACATGGACTGGCTATGATC
CTAGCTGGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

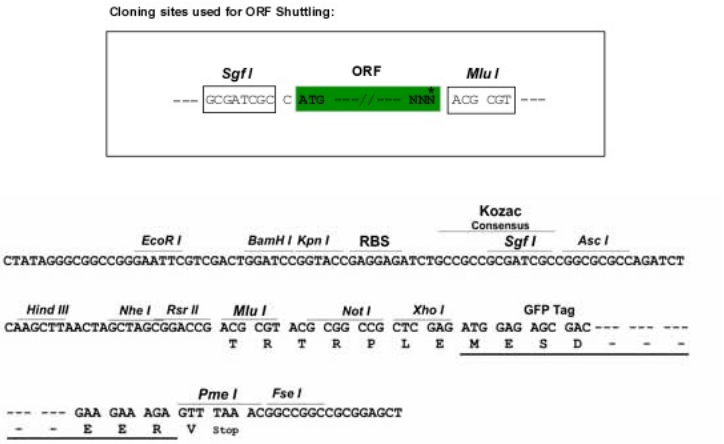
>MG219048 representing NM_001110150
Red=Cloning site Green=Tags(s)

MLKKQTAGLVLWGAIIFVGWNALLLLFFWTRPAPGRLPSDSALGDDPASLTREVIHLAEDAEAELERQRG
LLQQIKEHYALWRQRWRVPTVAPPAWPRVPVTPSPVQIPILVIACDRSTVRRCLDKLLHYRPSAERFPII
VSQDCGHEETAQVIASYGTAVTHIRQPDLSNIAVQPDHRKFQGYYKIARHYRWALGQIFNKFKFPAAVVV
EDDLEVAPDFFEYFQATYPLLRTDPSLWCVSAWNDNGKEQMVDSSKPELLYRTDFFPGLGWLLLADLWAE
LEPKWPKAFWDDWMRRPEQRKGRACIRPEISRTMTFGRKGVSHGQFFDQHLKFIKLNQQFVPFTQLDLSY
LQQEAYDRDFLAQVYGAPQLQVEKVRTNDQKELGEVRVQYTSRDSFKAFAKALGVMDDLKSGVPRAGYRG
IVTFQFRGRRVHLAPPQTWTGYDPSWN

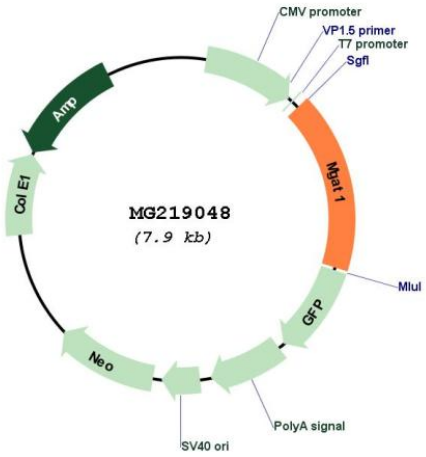
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001110150

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.

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.
RefSeq:	NM_001110150.1, NP_001103620.1
RefSeq Size:	2695 bp
RefSeq ORF:	1344 bp
Locus ID:	17308
UniProt ID:	P27808
Cytogenetics:	11 29.27 cM
Gene Summary:	Initiates complex N-linked carbohydrate formation. Essential for the conversion of high-mannose to hybrid and complex N-glycans.[UniProtKB/Swiss-Prot Function]