

Product datasheet for **MR218300**

Mgat1 (NM_001110149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat1 (NM_001110149) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mgat1
Synonyms:	Mgat-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR218300 representing NM_001110149
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGAAGAAGCAGACTGCAGGGCTTGTGCTTTGGGGTCTATCATCTTTGTGGCTGGAATGCCCTGC
 TGCTTCTCTTCTTCTGGACACGCCAGCACCTGGCAGGCTGCCCTCAGACAGCGCCTTGGTGATGACCC
 TGCCAGCCTCACCCGTGAGGTATCCACCTGGCCGAGGACGCTGAGGCGAGTTGGAGCGCAGAGGGGA
 CTGTTGCAGAAATCAAGGAGCATTATGCTTTGTGGAGCAGAGGTGGAGAGTCCCACTGTGGCCCTC
 CAGCCTGGCCCGTGTGCTGTGACCCCTCACCACTGCAGATCCCCATCCTGGTCATTGCTGTGACCG
 CAGCACTGTCCGGCGTCTTGGATAAGTTGTTGCACTATCGGCCCTCAGCTGAGCGTTTCCCCATTATT
 GTCAGTCAGGACTGTGGGCATGAAGAGACAGCACAGGTCATTGCTTCTATGGCACTGCAGTCACACACA
 TCCGGCAGCCGGACCTGAGTAACATTGCCGTGCAGCCAGACCACCGCAAGTCCAGGGTACTACAAGAT
 TGCCAGGCACTACCGCTGGGCACTAGGCCAGATTTCAACAAGTCAAGTCCCGGCCGCTGTGGTAGTG
 GAGGATGATCTGGAAGTGGCACCAGACTTCTTTGAGTACTCCAGGCCACCTACCCACTGCTGAGAACAG
 ACCCTCCCTTTGGTGTGTCTGCTTGAATGCAATGGCAAGGAGCAGATGGTAGACTCAAGCAAACC
 TGAGCTGCTCTATCGAACAGACTTTTTCTGGCCTTGGATGGCTGCTGTTGGCTGATCTGTGGGACAG
 CTGGAGCCCAAGTGGCCAAAGGCCTTTTGGGACGACTGGATGCGCCGACCTGAGCAGCGAAAGGACGGG
 CTTGTATTCGTCAGAAATTTCAAGAACTATGACCTTTGGTCGCAAGGGTGTGAGCCACGGGCGATTCTT
 TGACCAGCATCTTAAGTTCATCAAGCTGAACCAGCAGTTCGTCCCTTCACCCAGTTGGACCTGTGCTAC
 CTGCAGCAGGAGGCTATGACCGGGACTTCCTCGCCAGGTCTATGGTCCCCCAGCTACAGGTGGAGA
 AAGTAAGGACCAATGATCAGAAGGAGCTGGGGAGGTGCGGGTACAGTACACTAGCAGAGACAGCTTCAA
 GGCTTTGCTAAGGCCCTGGGTGTCATGGATGACCTCAAGTCTGGTGTCCCCAGGGCTGGCTACCGTGGC
 ATTGTCACCTTCCAGTTTCGGGGCCGGCTGTGCACCTGGCACCCCCACAGACATGGACTGGCTATGATC
 CTAGCTGGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218300 representing NM_001110149
 Red=Cloning site Green=Tags(s)

MLKKQTAGLVLVGAIIFVGNALLLFFWTRPAPGRPLPSDLSALGDDPASLTREVIHLAEDAEEAELERQRG
 LLQQIKEHYALWRQRWRVPTVAPPAPRPVPTSPVQIPILVIACDRSTVRRCLDKLLHYRPSAERFPII
 VSQDCGHEETAQVIASYGTAVTHIRQPDLSNIAVQPDHRKFQGYK IARHYRWALGQIFNKFKFPAVVV
 EDDLEVAPDFFEYFQATYPLLRTPSLWCVSAWNDNGKEQMVDSSKPELLYRTDFPGLWLLLADLWAE
 LEPKWPKAFWDDWMRPEQRKGRACIRPEISRTMTFGRKGVSHGQFFDQHLKFIKLNQQFVPFTQLDLSY
 LQQEAYDRDFLAQVYVYQQLQVEKVRTNDQKELGEVVRVQYTSRDSFKAFKALGVMDLKSQVPRAGYRG
 IVTFQFRGRRVHLAPPQTWTGYDPSWN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

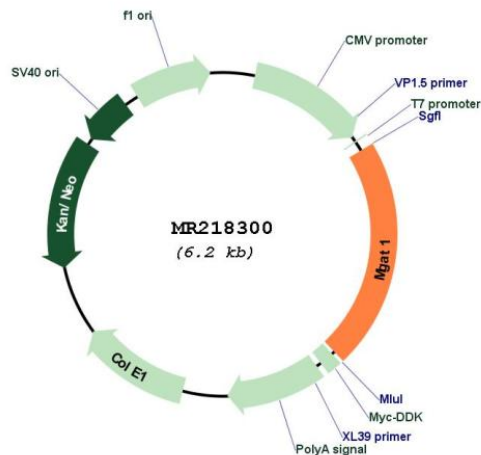
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001110149

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_001110149.1](#), [NP_001103619.1](#)

RefSeq Size: 2521 bp

RefSeq ORF: 1344 bp

Locus ID: 17308

UniProt ID: [P27808](#)

Cytogenetics: 11 29.27 cM

MW: 52.1 kDa

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]