

Product datasheet for **MC215949**

Mgat1 (NM_001110149) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC215949 representing NM_001110149
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGAAGAAGCAGACTGCAGGGCTTGTGCTTTGGGGTCTATCATCTTTGTGGCTGGAATGCCCTGC
 TGCTTCTCTTCTTCTGGACAGCCCAGCACCTGGCAGGCTGCCCTCAGACAGCGCCCTTGGTGATGACCC
 TGCCAGCCTCACCCGTGAGGTATCCACCTGGCCGAGGACGCTGAGGCGGAGTTGGAGCGCAGAGGGGA
 CTGTTGCAGAAATCAAGGAGCATTATGCTTTGTGGAGGAGAGGTGGAGAGTCCCACTGTGGCCCTC
 CAGCCTGGCCCGTGTGCTGTGACCCCTCACCACTGCAGATCCCCATCCTGGTCATTGCTGTGACCG
 CAGCACTGTCCGGCGCTGCTGGATAAGTTGTTGCACTATCGGCCCTCAGCTGAGCGTTTCCCCATTATT
 GTCAGTCAGGACTGTGGGCATGAAGAGACAGCACAGGTCATTGCTTCTATGGCACTGCAGTCACACACA
 TCCGGCAGCCGGACCTGAGTAACATTGCCGTGCAGCCAGACCACCGAAGTCCAGGGTACTACAAGAT
 TGCCAGGCACTACCGCTGGGCACTAGGCCAGATTTCAACAAGTCAAGTCCCGGCCGCTGTGGTAGTG
 GAGGATGATCTGGAAGTGGCACCAGACTTCTTTGAGTACTTCCAGGCCACTACCACTGCTGAGAACAG
 ACCCTCCCTTTGGTGTGTCTGCTTGGAAATGACAATGGCAAGGAGCAGATGGTAGACTCAAGCAAACC
 TGAGCTGCTCTATCGAACAGACTTTTTTCTGGCCTTGGATGGCTGCTGTTGGCTGATCTGTGGGCAGAG
 CTGGAGCCCAAGTGGCCCAAGGCCTTTTGGGACGACTGGATGCGCCGACCTGAGCAGCGAAAGGACGGG
 CTTGTATTCGTCAGAAATTTCAAGAACTATGACCTTTGGTCGCAAGGGTGTGAGCCACGGGCAGTTCTT
 TGACCAGCATCTTAAGTTCATCAAGCTGAACCAGCAGTTCGTCCCTTCACCCAGTTGGACCTGTGCTAC
 CTGCAGCAGGAGGCTATGACCCGGACTTCCTCGCCAGGTCTATGGTCCCCCAGCTACAGGTGGAGA
 AAGTAAGGACCAATGATCAGAAGGAGCTGGGGAGGTGCGGGTACAGTACACTAGCAGAGACAGCTTCAA
 GGCTTTGCTAAGGCCCTGGGTGTCATGGATGACCTCAAGTCTGGTGTCCCCAGGGCTGGCTACCGTGGC
 ATTGTCACCTTCCAGTTTCGGGGCCGGCTGTGCACCTGGCACCCCCACAGACATGGACTGGCTATGATC
 CTAGCTGGAAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001110149

Insert Size: 1344 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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

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]
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. All variants encode the same isoform.