

## Product datasheet for **RR201823**

### Mgat1 (NM\_030861) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat1 (NM_030861) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mgat1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201823 representing NM_030861 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGAAGAAGCAGTCTGCAGGGCTTGTGCTTTGGGGTGCTATCATCTTTGTGGCTGGAATGCCCTGC  
TGCTCCTCTTCTTGGACACGCCAGCACCTGGCAGGCTGCCCTCAGACAGTGCCCTTGGTGATGACCC  
TGCCAGCCTCACCGTGAGGTCACTCCACCTGGCCGAGGACGCCGAGGCGGAGTTGGAGCGGACGGGGA  
CTACTGCAGCAGATCAAGGAGCATTATTCTCTGTGGAGGACAGAGTGGAGAGTCCACCGTGGCCCTC  
CAGCCTGGCCCCGTGTCCTGGGACCCCTCACAGCTGTGATCCCCATTCTGGTCATTGCTGTGACCCG  
CAGCACTGTCCGGCGCTGCCTGGATAAGTTGTTGCACTATCGGCCCTCTGCTGAGCATTTCGCCATTATT  
GTCAGTCAAGACTGTGGGCATGAAGAGACAGCACAGGTCATTGCTTCTTATGGCACCGCTGCACACACA  
TCCGGCAGCCAGACCTGAGTAACATTGCCGTGCAGCCAGACCACCGTAAGTTCAGGGTTACTACAAGAT  
TGCCAGGCACTACCGCTGGGCGCTAGGCCAGATTTCAACAAGTTCAAGTTCGCCGCTGCTGTGGTAGTG  
GAGGATGATCTGGAAGTGGCGCCGACTTCTTCGAGTACTTCAGGCCACCTACCCGCTGCTGAAAGCAG  
ACCCCTCCCTTTGGTGTGTGTCGGCTTGAATGATAATGGTAAGGAGCAGATGGTGGACTCCAGCAAACC  
TGAGCTGCTCTATCGAACAGACTTTTTTCTGGCCTTGGATGGCTGCTGTTGGCTGATCTCTGGGCAGAA  
CTAGAGCCCAAGTGGCCAAGGCCTTCTGGGACGACTGGATGCGCAGACCTGAGCAGCGGAAGGGCGGG  
CTTGATTCGTCAGAAATTTCAAGAACTATGACATTTGGTCGCAAGGGTGTGAGCCATGGGCAGTCTT  
TGACCAGCATCTAAATTCATCAAGCTGAACCAGCAGTTCGTGCCCTTACCCAGTTGGACCTGTCGTAC  
CTGCAGCGGGAGGCTATGACCGGGACTTCCTTGGCCAGGTCTATGGTGGCCCCAGCTGCAGGTGGAGA  
AAGTGAGGACCAATGATCGGAAGAACTGGGGGAGGTGCGGGTACAGTACACTAGCAGAGACAGCTTTAA  
GGCCTTTGCTAAGGCCCTGGGTGTCATGGACGACCTCAAGTCTGGTGTCCCCAGAGCTGGCTACCGTGGC  
ATTGTCACTTTCCAGTTCGGGGTGGCGTGTCCACCTGGCACCCCCAGAGACATGGAATGGCTATGATC  
CTAGCTGGAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR201823 representing NM\_030861  
Red=Cloning site Green=Tags(s)

MLKKQSAGLVLVGAIIFVGNALLLFFWTRPAPGRPLPSDSALGDDPASLTREVIHLAEDAEEAELERQRG  
 LLQQIKEHYSWRQRWRVPTVAPPAWPRVPGTPSPAVIPILVIACDRSTVRRCLDKLLHYRPSAEHFPII  
 VSQDCGHEETAQVIASYGTAVTHIRQPDLSNIAVQPDHRKFQGYKIHRYRWALGQIFNKFKFPAAVVV  
 EDDLEVAPDFFEYFQATYPLLKADPSLWCVSAWNDNGKEQMVDSSKPELLYRTDFFPGLGWLLADLWAE  
 LEPKWPKAFWDDWMRRPEQRKGRACIRPEISRTMTFGRKGVSHGQFFDQHLKFKIKLNQQFVPFTQLDLSY  
 LQREAYDRDFLAQVYGAPQLQVEKVRTNDRKELGEVRVQYTSRDSFKAFKALGMDDLKSGVPRAGYRG  
 IVTFQFRGRRVHLAPPETWNGYDPSWN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

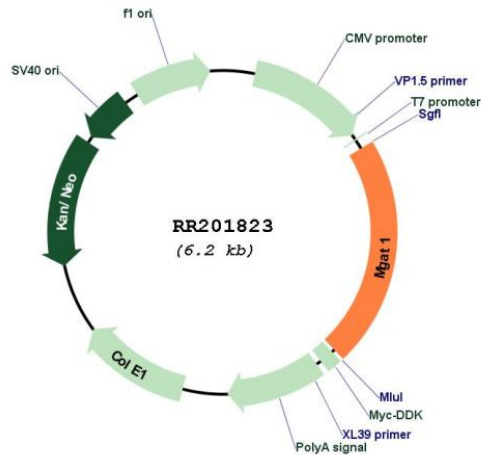
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_030861
<b>ORF Size:</b>	1341 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_030861.1</a> , <a href="#">NP_110488.1</a>
<b>RefSeq Size:</b>	2546 bp
<b>RefSeq ORF:</b>	1344 bp
<b>Locus ID:</b>	81519
<b>UniProt ID:</b>	<a href="#">Q09325</a>
<b>Cytogenetics:</b>	10q21
<b>MW:</b>	51.6 kDa
<b>Gene Summary:</b>	enzyme involved in N-linked carbohydrate formation [RGD, Feb 2006]