

## Product datasheet for **RR207590**

### **Mgat3 (NM\_019239) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mgat3 (NM_019239) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mgat3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR207590 representing NM\_019239  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGATGAGACGCTACAAGCTTTTTCTCATGTTCTGTATGGCCGGCCTGTGCCTCATCTCCTTCTCTGC  
 ACTTCTTTAAGACGTTATCCTATGTACCTTCCGAGAGAAGTGGCTCCCTCAGCCCTAACCTCATATC  
 CAGCTTCTTCTGGAACAATGCCCTGTCACTCCCCAGGCCAGTCCGGAGCCCGGTGACCCCGACTTGTTA  
 CGGACTCCACTCTACTCCACTCCCCCTGCTCCAGCCACTGTCCCTAGCAAGGCCACCGAAGAACTGC  
 ACCGGGTGGACTTCGTGTTGCCGGAGGACACCACAGATATTTGTGCGCACAAAGCTGGCGGTGTGTG  
 CTTCAAACCAGGTACCAGGATGCTGGAGAACTTCTCCAGGGCGGACAGAGGAGAAGACCAAGGTGGCT  
 GAGGGTCTCGGTCCGGGTCTGCTCGGAGGCCTATGCGGCATGTGTTGAGTGCACGGGAGCGCCTGG  
 GAGGCCGGGGCACTAGGCACAAGTGGTGTGAGTGTGTGCTGCCAGGTGGCACGGGCCAGCTCGCG  
 GGTGCCACTGTGTTCCAGTATCCAACCTGCCACCAAGGAGCGCTGGTACCCAGGGAGGTGCCGAGG  
 CGGTTATCAACGCCATCAACATCAACATGAGTTCGACCTGCTGGATGTGCGCTCCATGAGCTGGCGG  
 ATGTTGTGGACGCCTTTGTGGTCTGCGAATCCAATTTACCGCCTACGGGGAGCCTCGGCCGCTCAAGT  
 CCGAGAGATGCTGACCAATGGCACCTTCGAGTACATCCGCCACAAGGTGCTTACGTCTTCTGGACCAC  
 TCCCACCTGGTGGCGTCAGGACGGCTGGATTGCAGACGACTACCTGCGTACCTTCTCACCCAGGATG  
 GTGTCTCCCGCTGCGCAACCTGCGACCTGATGACGTCTTTATCATCGACGACGGGACGAGATCCCTGC  
 GCGTGTGGTGTGCTGTTCTCAAGCTCTACGATGGCTGGACAGAGCCCTTCGCTTCCATATGCGCAAG  
 TCCCTGTATGGTTCTTTTGAAGCAACCAGGCACACTGGAGTGGTGTGAGGCTGCACCATGGCACTTCG  
 TGCAGGTGTGTATGGCTGGACGGCATCCGCTGCGCCCGCTCAGTACTACCCATGCCAACTTTTCG  
 ACAGTATGAGAACCACCGGCCACATCCTAGTGCAGTGGTCTCTCGGCAGCCCTGCACCTTCGCGGGC  
 TGGCACTGCTCCTGGTCTTACACCCGAGGGCATCTACTTCAAACCTCGTGTGCGCCAGAAATGGTACT  
 TCCCCGCTGGGGTACTACGAGGACAAGGGACCTCAATTACATCCGAAGCTTGATTCGCACTGGGGG  
 ATGGTTCGACGGCAGCAGCAGGAGTACCCTCCTGCAGACCCAGTGAACACATGTATGCTCCTAAGTAC  
 CTGCTCAAGAATATGACCAGTCCGCTACTTGTGCGAAAATCCCTACCGGGAGCCCAAGAGCACTGTAG  
 AGGGTGGCGCCGAACCAGGGCTCAGACGGAAGTCACTGCTGTGAGGGCAAGTTGGATAACAACGGA  
 GGGCGGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR207590 representing NM\_019239  
 Red=Cloning site Green=Tags(s)

MKMRRYKFLMFCMAGLCLISFLHFFKLSYVTFPRELASLSPNLISFFWNNAPVTPQASPEPDPDLL  
 RTPLYSHSPLLQPLSPSKATEELHRVDFVLPEDTTEYFVRTKAGGVCFKPGTRMLEKPSGRTEETKVA  
 EGSSVRGPARRPMRHVLSARERLGGRTTRKWVECVCLPGWHGPGVPTVVQYSNLPTKERLVPREVPR  
 RVINAININHEFDLLDVRFHLDVDFVDFVDFVDFVDFVDFVDFVDFVDFVDFVDFVDFVDFVDFVDFV  
 FPPGGRQDGIADDYLRFTLQDGVSRRLRNPDDVFIIDDADEIPARDGVLFLKLYDGTPEFAFHMRK  
 SLYGFFWKQPGTLEVVSGCTIDMLQAVYGLDGIRLRRRQYYTMPNFRQYENRTGHILVQWSLGSPLHFA  
 WHCSWCFTEPIYFKLVSAQNGDFPRWGDYEDKRDNLNIRSLIRTGGWFDGTQQEYPPADPSEHMYAPKY  
 LLKNYDQFRYLLENPYREPKSTVEGRRNQSDGRSSAVRGKLDITTEGG

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1517\\_f02.zip](https://cdn.origene.com/chromatograms/ja1517_f02.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_019239

**ORF Size:** 1614 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\\_019239.2](#), [NP\\_062112.2](#)

**RefSeq Size:** 2678 bp

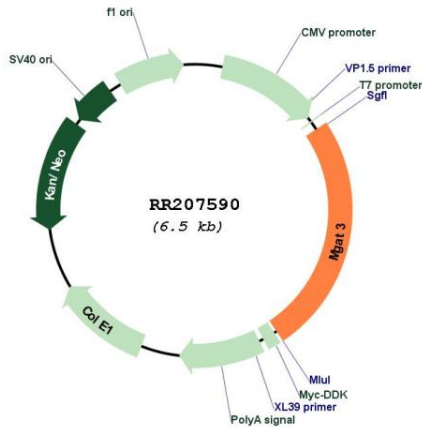
**RefSeq ORF:** 1617 bp

**Locus ID:** 29582

**UniProt ID:** [Q02527](#)

**Cytogenetics:** 7q34  
**MW:** 62 kDa  
**Gene Summary:** enzyme that catalyzes the addition of N-acetylglucosamine to the beta-linked mannose of the trimannosyl core of N-linked sugar chains [RGD, Feb 2006]

**Product images:**



Circular map for RR207590