

Product datasheet for RR215072

Mgat2 (NM_053604) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat2 (NM_053604) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mgat2
Synonyms:	Gnt2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR215072 representing NM_053604 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGTTCCGCATCTACAAACGGAAGGTGCTAATCCTGACGCTCGTGGTGGCCGCTCGGGCTTCGTCC
TCTGGAGTAGCAATGGGCGACAAAGGAAGAACGACGCCCTTGCCCGCCGCTGCTGGACTCGGAGCCCT
ACGGGGTGGGGCCATTTCCGCCGTCCTGAGGCATCCGACGGGTTTCTAACGACTCGGCCGCTCCTCTG
GTTCCCGCGTCCCGCGCCGGAGGTGGACAACCTAACGCTGCGGTACCGGTCCCTAGTGTACCAGTTGA
ACTTTGATCAGATGCTGAGGAATGTCGATAAAGACGGCACCTGGAGTCCGGGGGAGCTGGTGTGGTGGT
CCAAGTGCATAACAGGCCGGAATACCTCAGGCTGCTGATAGACTCGCTTCGAAAAGCCAGGGTATTTCG
GAAGTCTAGTCATCTTTAGCCATGACTTCTGGTCGGCAGAGATCAACAGTCTGATCTCTAGTGTGGACT
TCTGTCCGTTCTGCAAGTGTCTTTCCGTTCCAGATTCAGCTGTACCCGAGTGAAGTTCCGGGTAGTGA
TCCCAGAGATTGCCCCAGAGACCTGAAGAAGAATGCAGCTCTCAAGTTGGGGTGCATCAATGCCGAATAC
CCAGACTCCTTCGGCCATTACAGAGAGGCCAAATTCGCAAACCAAACATCACTGGTGGTGAAGCTGC
ATTTTGTATGGGAAAGAGTCAAAGTCTTCAAGATTACACTGGCCTTATACTTTTCTGGAAGAGACCA
CTACTTAGCCCCAGACTTTTACCATGTCTTCAAAAAGATGTGAAATTGAAGCAGCAGGAGTGTCTCTGGG
TGTGACGTCCTCTCTAGGGACCTACACCACCTTCGGAGTTTCTATGGTATTGCTGACAAAGTAGATG
TGAAAACCTGGAAATCGACAGAGACAATATGGGGCTAGCCTTGACCCGAGATGCATATCAGAAGCTTAT
CGAGTGCACGGACACTTTCTGTACTTACGATGATTATAACTGGGACTGGACTCTTCAATATTTGACTCTA
GCTTGTCTTCTAAAGTCTGAAAGTCTTAGTTCCTCAAGCTCCTAGGATTTTTCATGCTGGAGACTGTG
GTATGCATCACAAGAAAACATGTAGGCCATCCACCAGAGTGCCCAAATTGAGTCATTATTAATAATAA
TAAACAGTACCTGTTCCAGAACTCTAGTTATCGGTGAGAAGTTTCTATGGCAGCCATTTCCCCACCT
AGGAAAAATGGAGGTGGGGAGATATTAGGGACCATGAACTCTGTAAAAGTTATAGAAGACTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215072 representing NM_053604
Red=Cloning site Green=Tags(s)

MRFRIYKRKVLILTLVVAACGFVLWSSNGRQRKNDALAPLLDSEPLRGAGHFAASVGIRRVSNDSAAPL
 VPAVPRPEVDNLTLRYRSLVYQLNFDQMLRNVDKDGTSWSPGELVLVVQVHNRPEYLRLLIDSLRKAQGIR
 EVLVIFSHDFWSAEINSLISSVDFCPVLQVFFPFSIQLYPSEFPGSDPRDCPRDLKNAALKGCINA EY
 PDSFGHYREAKFSQTKHHWWWKLFVWERVKVLQDYTGLILFLEEDHYLAPDFYHVFKMMWKLKQCECPG
 CDVLSLGTYYTTRSFYGIADKVDVKTWKSSTEHNMGLALTRDAYQKLI ECTDTFCTYDDYNWDWTLQYLTL
 ACLPKVWKVLPQAPRI FHAGDCGMHHKTCRPPSTQSAQIESLLNNKQYLPETLVIGKEFMAAISPP
 RKNGGWGDIRDHELCKSYRRLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

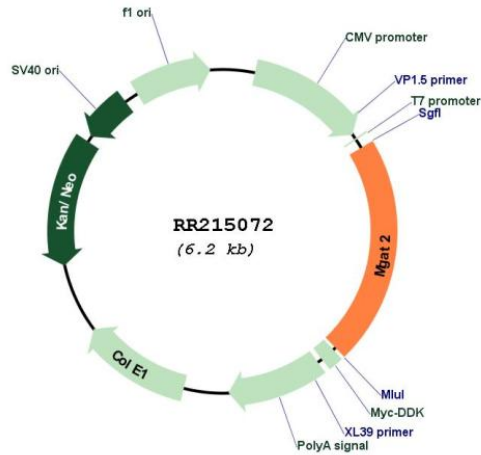
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_053604

ORF Size:	1326 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:	<ol style="list-style-type: none">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_053604.2 , NP_446056.1
RefSeq Size:	2510 bp
RefSeq ORF:	1329 bp
Locus ID:	94273
UniProt ID:	Q09326
Cytogenetics:	6q24
MW:	51.1 kDa
Gene Summary:	enzyme that catalyzes an essential step in the biosynthetic pathway leading from high mannose to complex N-linked oligosaccharides [RGD, Feb 2006]