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Product datasheet for RR210541

Mgat5 (NM_023095) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mgat5 (NM_023095) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mgat5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RR210541 representing NM_023095
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTTCTTTTCTCCCTGGAAGTTGTCCTCTCAGAAGCTGGGCTTTTTCTTGGTGACTTTTGGCTTCA
TATGGGGGATGATGCTTCTACACTTCACCATCCAGCAGCGAACTCAGCCTGAGAGCAGCTCCATGTTGCG
GGAGCAAATCCTTGACCTCAGCAAAAGGTACATTAAGGCACTGGCAGAAGAGAACAGGAACGTGGTGGAT
GGCCCGTATGCCGGTGTCATGACAGCCTATGATCTGAAGAAAACGCTCGCCGTGCTGCTGGATAACATCT
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CATAACTCATTGGCAGAAATCCGCACGGATTTTAACATTCTCTACGGCATGATGAAGAAGCATGAGGAGT
TCCGGTGGATGAGACTTCGGATCCGGCGAATGGCTGATGCATGGATCCAAGCAATCAAGTCTCTGGCAGA
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AGAGCCAGCTCATCTGCGAGCCGTCCTTCTTCCAGCACCTCAACAAGGAAAAGGACCTGCTGAAGTATAA
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TGTGTGTTCCAAGGGGATCTCCTGCTCTTCAGTTGTGCCGGGGCCCACCCCACACACCAGCGGATCTGCC
CCTGCCGGGACTTCATCAAGGGCCAAGTGGCCCTCTGCAAAGACTGCCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210541 representing NM_023095
Red=Cloning site Green=Tags(s)

MAFFSPWKLSSQKLGFFLVTFGFIWGMMLLHFTIQQRTQPESSSMLREQILDLSKRYIKALAEENRNVVD
GPYAGVMTAYDLKKTLAVLLDNILQRIGKLESKVDNLVNGTGANSTNSTTAVPSLVSLEKINVADIINGV
QEKCVLPPMDGYPHCEGKIKWMKDMWRSDPCYADYGVDGTSCSFFIYLSEVENWCPRLPWRAKNPYEEAD
HNSLAEIRTDFNILYGMMKKHEEFRWMRLRIRRMADAWIQAIKSLAEKQNLEKRKRKKILVHLGLLTKES
GFKIAETAFSGGPLGELVQWSDLITSLYLLGHDIRISASLAELKEIMKKVVGNRSGCPTVGDRIVELIYI
DIVGLAQFKKTLGPSWVHYQCMLRVLDSFGTEPEFNHASYAQSKGHKTPWGKWNLNPQQFYTMFPHTPDN
SFLGFVVEQHLNSSDIHHHINEIKRQNQSLVYGKVDSFWKNKKIYLDIIHTYMEVHATVYGSSTKNIPSYV
KNHGILSGRDLQFLLRETKLFVGLGFPYEGPAPLEAIANGCAFLNPKFNPPKSSKNTDFFIGKPTLRELT
SQHPYAEVFIGRPHVWTVDLNNREEVEDAVKAILNQKIEPYMPYEFTCEGMLQRINAFIEKQDFCHGQVM
WPPLSALQVKLAEPGQSCKQVCQESQLICEPSFFQHLNKEKDLLKYKVICQSSELYKDILVPSFYPKSKH
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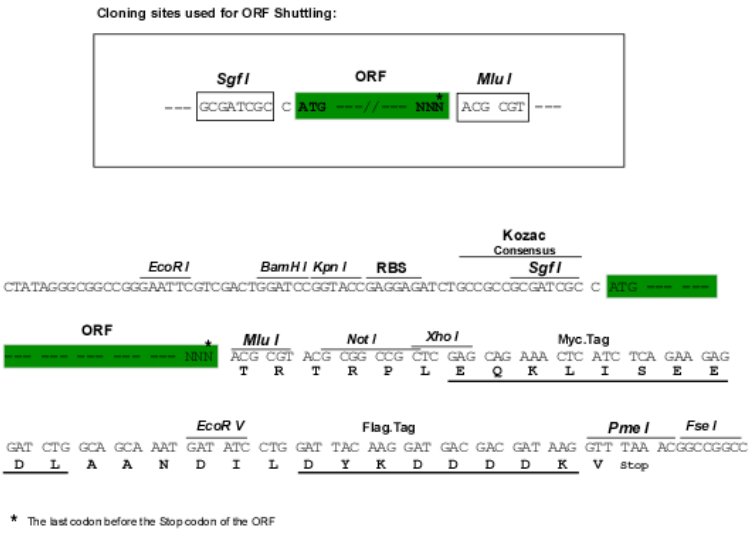
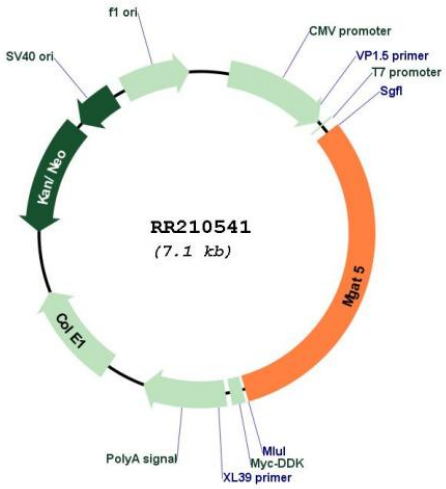
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_023095
ORF Size:	2220 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_023095.1, NP_075583.1
RefSeq Size:	2623 bp
RefSeq ORF:	2223 bp

Locus ID:	65271
UniProt ID:	Q08834
Cytogenetics:	13q12-q13
MW:	84.6 kDa
Gene Summary:	golgi enzyme that catalyzes the transfer of N-acetylglucosamine to the alpha-1,6 mannose of oligosacchride chains [RGD, Feb 2006]