

Product datasheet for **RR214504**

Mgat5b (NM_001107068) Rat Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Mgat5b (NM_001107068) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Mgat5b |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR214504 representing NM_001107068
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGTCCCCGCTGGACCTCTGACCCTGCTACGCTTCTTTGGAGTAGACGGCACCGAGTGCTCCTTCC
 TCATCTACCTCAGTGAGTTGAGTGTTCGCCCCCGCTTCCCTGGAGGAACCAGACAGCCACCCGGAC
 AGCCACAAAGTCCCTTCCAGAGTCCAGGCTATGTTCCGAGCAACCTGTCCACCTCCTGGAGCTGATG
 GGCAGTGGGAAGGAGTCCCTTATCTTCATGAAGAAGCGAACCAGGCGGTTACCGCACAGTGACCAAAAG
 CTGCCAAGTACCTAGCACAGAAGCTGGGGGACATCCGGAGGGACCAGAAGCAAATCCTTGTCCACATCGG
 CTTCTGACAGAGGAGTCTGGGACGTGTTAGCCCAAGGGTGTGAAGGGCGGGCTCTGGGAGAGATG
 GTGCAGTGGGACAGACATTCTGGCTGCTGTACATGCTGGCCACAGCCTGCGGGTACAGTTTCCCTGA
 AGGAGCTGCAGAGTAACCTAGGGGTGCCCCAGGCCGGGGAACTGCCACTCACCGTACCTCTGCCTTT
 TGACCTCATCTACACGGACTATCATGGCCTGCAGCAGATGAAACAGTACATGGGGCTGTCTTCAAGAAG
 TACCGGTGCAGAAATCCGAGTGATCGACACCTTCGGGACGGAGCCAGCGTACAACCATGAGGAGTATGCCA
 CACTGCATGGCTACCGGACCAACTGGGGTACTGGAACCTCAACCCCAAGCAGTTCATGACCATGTTCCC
 TCACACCCAGACAACCTCCTTCATGGGCTTCGTGTCTGAGGAGCTCAATGAGACCGAGAAGCAGCTCATC
 AAAGATGGCAAAGCCAGCAACATGGCAGTGGTGTACGGCAAGGAGGCGAGTATCTGGAAGGGCAAGGAGA
 AGTTCTCGCCATCCTCAACAAGTACATGGAGATCCACGGTACCGTGTACTATGAGAGCCAGCGGCCACC
 CGAGGTCCTGCCTTTGTGAAGAACCATGGCCTTCTGCCACAGCCTGAGTCCAGCAGCTGCTGCCTAAG
 GCCAAGCTCTTTATAGGGTTCGGATTCCCTACGAGGGCCAGCACCCTGAGGAGTTCGCCAAGCGCT
 GCATCTTCTACAGTCTCGATTACAGCCACCCACAGCTCCCTCAACCACGAGTTCCTCCGGGGCAAGCC
 CACCTCCAGGGAGGTGTTCTCCAGCATCCCTATGCAGAGAACTTCATCGGCAAGCCTCATGTGTGGACC
 GTGGACTATAAACAACCTCCGATGAGTTTGAAGTACCATTAAGGCCATCATGAACCCAGGTGGACCCGT
 ATCTGCCCTATGAGTACACCTGTGTGGGATGCTGGAACGGATCAACGCCTACATCCAACACCAGGACTT
 CTGTGGGGTCCCAGCCCTGTTCCACTGGGGTCCAACACTGCCAGAGTCTCTTTGTCTTAGCCCTAAT
 GCAACTCATCTCGAGTGGGCCAGAACATCAGTCCGTTCCGGGAGCCTGGCCCCCTCCCCTCTCTGC
 GGGCTGGCTGGCAGCCCTGGAAGGGCTGCACGGACGCTGCCTGGACCACGGACTAGTGTGCGAGCC
 TTCATTCTCCCTTCTCAACAGCCAAGATGCGTTCCTCAGGCTGCAGGTGCCCTGTGACAGCACAGAG
 TGGGAGATGCATCACTTGTACCCCGCTTTGCCAGCCGGGCCAAGAGTGTACCTACAGAAAGAGCCGC
 TGCTTTCAGCTGTGCAGGCGCCAGCACCAAGTACCAGAGGCTCTGTCCCTGCCGTGACTCCGCAAGGG
 CCAGGTGGCCTGTGCCAGGGTGCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214504 representing NM_001107068
 Red=Cloning site Green=Tags(s)

MRARWTSDFCYAFFGVDGTECSFLIYLSEVEWFCPPLPWRNQTATRTAHKSLPRVQAMFRSNLSHLLLELM
 GSGKESLIFMKRTRRFTAQWTKAAKYLAQKLGDIRRDQKQILVHIGFLTEESGDVFSRVLKGGPLGEM
 VQWADILAALYMLGHSLRVTVSLKELQSNLGVPPGRGNCPLTVPLPFDLIYTDYHGLQQMKQYMGLSFKK
 YRCRIRVIDTFGTEPAYNHEEYATLHGVRTNWGYWNLNPKQFMTMFPHTPDNSFMGFVSEELNETEKQLI
 KDGRKASNAVYVYKEASIWKGKEKFLAILNKYMEIHGTVYYESQRPPEVPAFVKNHGLLPQPEFQQLLRK
 AKLFIGFGFPYEGPAPLEAIANGCIFLQSRFSPHSSLNHEFFRQKPTSREVFVSHQHPYAENFIGKPHVWT
 VDYNNDEFEATIKAIMNTQVDPYLPYETCVGMLERINAYIQHQDFCGGPPVPLGSNTAQSFLVLAAPN
 ATHLEWAQNISSVPGAWPPPHSLRAWLAAPGRACDACLHGLVCEPSPFPFLNSQDAFLRLQVPCDSTE
 WEMHHLYPFAAQPQGEQYLQKEPLLFSCAGASTKYQRLCPCRDVFRKQVALCQGCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

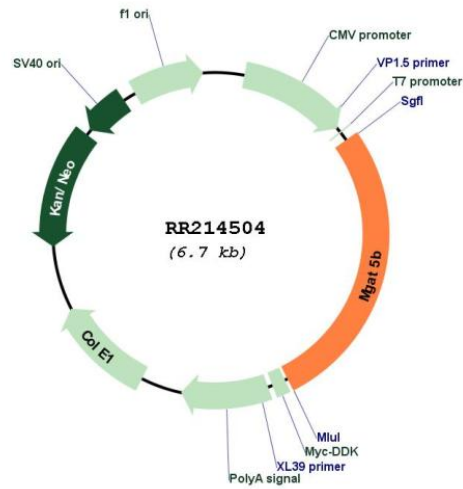
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001107068

ORF Size: 1848 bp

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| 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_001107068.1 , NP_001100538.1 |
| RefSeq Size: | 3947 bp |
| RefSeq ORF: | 1851 bp |
| Locus ID: | 303693 |
| Cytogenetics: | 10q32.2 |
| MW: | 70.1 kDa |