

Product datasheet for **RC214591**

MGAT5B (NM_144677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT5B (NM_144677) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MGAT5B
Synonyms:	GnT-IX; GnT-VB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC214591 representing NM_144677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCACCGTCAACCCCGATGGGAAGATAATGGTCAGAAGATGCCTGGTCACCCTGAGACCCTTTCGGC
 TTTTGTCTGGGCATCGCTTCTTCACTCTCTGCTTCTGATGACGTCTCTGGGAGGCCAGTTCTCGGC
 CCGGCGCCTGGGGACTCGCCATTACCATCCGCACAGAAGTGATGGGGGCCCGAGTCCCGCGCGCTC
 CTGCGCAAGATGAGCGACCTGCTGGAGCTGATGGTGAAGCGCATGGACGCACTGGCCAGGCTGGAGAACA
 GCAGTGAGCTGCACCGGGCCGGCGGACCTGCACTTTCCCGCAGACAGGATGCCCCCTGGGGCCGGCT
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 GAAGCAACCTGTCCACCTTCTGGACCTGATGGGACGCGGAAGGAGTCCCTGATCTTATGAAGAAGCG
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 AGGGACCAGAAGCAGATCCTGGTCCACATCGGCTTCTGACGGAGGAGTCCGGGACGTGTTACGCCCTC
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 GGAAGCTGCCCGCTCACCATGCCCTGCCCTTCGACCTCATCTACCCGACTACCACGGCCTGCAGCAGA
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 CCCCAGAGCCCTTTGTCTGGCCCCAATGCCACCCACCTCGAGTGGGCTCGGAACACCAGCTTGGC
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 TCAAGCTGCAGGTGCCCTGTGACAGCACCGAGTCCGAGATGAACCACCTGTACCCGGCTTCGCCAGCC
 TGGCCAGGAGTGTACCTGCAGAAGGAGCCTCTGCTCTTACGCTGCGCCGGCTCCAACACCAAGTACCGC
 CGGCTCTGCCCTGCCGCGACTTCCGCAAGGGCCAGGTGGCCTTGTGCCAGGGCTGTCTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214591 representing NM_144677
 Red=Cloning site Green=Tags(s)

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MITVNPDGKIMVRRCLVTLRPFRLFVLGIGFFTLCLMTSLGGQFSARRLGDSPFTIRTEVMGGPESRGV
LRKMSDLELMVKRMDALARLENSELHRAGGDLHFPADRMPPGAGLMERIQAIQNVSDIAVKVDQILR
HSLLLHSKVSEGRRDQCEAPSDPKFPDCSGKVEWMRARWTS DPCYAFFGVDGTECSFLIYLSEVEWFCPP
LPWRNQTAARAPKPLPKVQAVFRSNL SHLLDLMGSGKESLIFMKKRTKRLTAQWALAAQRLAQKLGATQ
RDQKQILVHIGFLTEESGDVFSRVLKGGPLGEMVQWADILTALYVLGHGLRVTVSLKELQSNLGVPPGR
GSCPLTMPLPFDLIYTDYHGLQQMKRHMGLSFKKYRCRIRVIDTFGTEPAYNHEEYATLHGVRTNWGYWN
LNPKQFMTMFPHTPDNSFMGFVSEELNETEKRLIKGGKASNMAVYVGKEASIWKGKEKFLGILNKYMEIH
GTVYYESQRPEVPAFVKNHGLLPQPEFQQLLRKAKLFIGFGFPYEGPAPLEAIANGCIFLQSRFSPPHS
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RIHAYIQHQDFCRAPDPALPEAHAPQSPFVLAPNATHLEWARNTSLAPGAWPPAHALRAWLAVPGRACD
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RLCPCRD FRKGQVALCQGCL
  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

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_144677.3](#)

RefSeq Size: 4246 bp

RefSeq ORF: 2373 bp

Locus ID: 146664

UniProt ID: [Q3V5L5](#)

Cytogenetics: 17q25.2

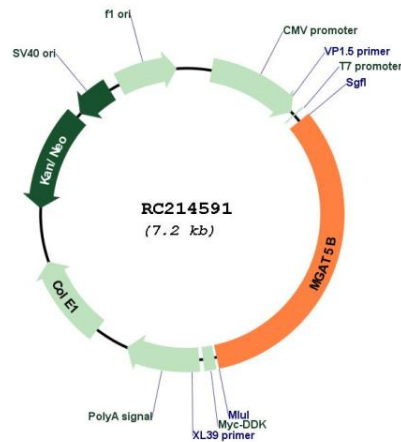
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

MW: 89.1 kDa

Gene Summary: The MGAT5B gene encodes a beta-1,6-N-acetylglucosaminyltransferase (EC 2.4.1.155) that functions in the synthesis of complex cell surface N-glycans (Kaneko et al., 2003 [PubMed 14623122]).[supplied by OMIM, Nov 2008]

Product images:



Circular map for RC214591