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Product datasheet for RC234885

MGAT5B (NM_001199172) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MGAT5B (NM_001199172) 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:

>RC234885 representing NM_001199172
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCACCGTCAACCCCGATGGGAAGATAATGGTCAGAAGATGCCTGGTCACCCTGAGACCCTTTCGGC
TTTTTGTCCTGGGCATCGGCTTCTTCACTCTCTGCTTCCTGATGACGTCTCTGGGAGGCCAGTTCTCGGC
CCGGCGCCTGGGGGACTCGCCATTCACCATCCGCACAGAAGTGATGGGGGGCCCCGAGTCCCGCGGCGTC
CTGCGCAAGATGAGCGACCTGCTGGAGCTGATGGTGAAGCGCATGGACGCACTGGCCAGGCTGGAGAACA
GCAGTGAGCTGCACCGGGCCGGCGGCGACCTGCACTTTCCCGCAGACAGGATGCCCCCTGGGGCCGGCCT
CATGGAGCGGATCCAGGCTATTGCCCAGAACGTCTCCGACATCGCTGTGAAGGTGGACCAGATCCTGCGC
CACAGTCTGCTCCTGCACAGCAAGGTGTCAGAAGGCCGGCGGGACCAGTGTGAGGCACCCAGTGACCCCA
AGTTCCCTGACTGCTCAGGGAAGGTGGAGTGGATGCGTGCCCGCTGGACCTCTGACCCCTGCTACGCCTT
CTTTGGGGTGGACGGCACCGAGTGCTCCTTCCTCATCTACCTCAGTGAGGTCGAGTGGTTCTGCCCCCCG
CTGCCCTGGAGGAACCAGACGGCTGCCCAGAGGGCACCCAAGCCCCTCCCCAAAGTCCAGGCAGTTTTCC
GAAGCAACCTGTCCCACCTTCTGGACCTGATGGGCAGCGGGAAGGAGTCCCTGATCTTCATGAAGAAGCG
GACCAAGAGGCTCACAGCCCAGTGGGCGCTGGCTGCCCAGCGCCTGGCACAGAAGCTGGGGGCCACCCAG
AGGGACCAGAAGCAGATCCTGGTCCACATCGGCTTCCTGACGGAGGAGTCCGGGGACGTGTTCAGCCCTC
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GGGCCATGGCCTGCGGGTCACAGTCTCCCTGAAGGAGCTGCAGAGTAACTTAGGGGTACCGCCAGGCCGG
GGAAGCTGCCCGCTCACCATGCCCCTGCCCTTCGACCTCATCTACACCGACTACCACGGCCTGCAGCAGA
TGAAGCGGCACATGGGACTCTCCTTCAAGAAGTACCGGTGCCGAATCAGGGTCATCGACACCTTCGGGAC
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CTCAACCCCAAGCAGTTCATGACCATGTTTCCTCATACCCCCGACAACTCCTTCATGGGCTTCGTGTCCG
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CAAGGAGGCGAGCATCTGGAAGCTCCAGGGGAAGGAGAAGTTCCTGGGCATCCTGAACAAATACATGGAG
ATCCATGGCACCGTGTACTACGAGAGCCAGCGGCCCCCCGAGGTGCCAGCCTTTGTGAAGAACCACGGCC
TCTTACCGCAGCCTGAGTTTCAGCAGCTGCTGCGCAAGGCCAAACTCTTCATCGGGTTTGGCTTCCCCTA
CGAGGGCCCCGCCCCCCTGGAGGCCATCGCCAATGGTTGCATCTTCCTGCAGTCCCGCTTCAGCCCGCCC
CACAGCTCCCTCAACCACGAGTTCTTCCGAGGCAAGCCCACCTCCAGAGAGGTGTTCTCCCAGCATCCCT
ACGCGGAGAACTTCATCGGCAAGCCCCACGTGTGGACAGTCGACTACAACAACTCAGAGGAGTTTGAAGC
AGCCATCAAGGCCATTATGAGAACTCAGGTAGACCCCTACCTACCCTACGAGTACACCTGCGAGGGGATG
CTGGAGCGGATCCACGCCTACATCCAGCACCAGGACTTCTGCAGAGCTCCAGACCCTGCCCTACCAGAGG
CCCACGCCCCGCAGAGCCCCTTTGTCCTGGCCCCCAATGCCACCCACCTCGAGTGGGCTCGGAACACCAG
CTTGGCTCCTGGGGCCTGGCCCCCCGCGCACGCCCTGCGGGCCTGGCTGGCCGTGCCTGGGAGGGCCTGC
ACCGACACCTGCCTGGACCACGGGCTAATCTGTGAGCCCTCCTTCTTCCCCTTCCTGAACAGCCAGGACG
CCTTCCTCAAGCTGCAGGTGCCCTGTGACAGCACCGAGTCGGAGATGAACCACCTGTACCCGGCGTTCGC
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TACCGCCGGCTCTGCCCCTGCCGCGACTTCCGCAAGGGCCAGGTGGCCTTGTGCCAGGGCTGTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC234885 representing NM_001199172
Red=Cloning site Green=Tags(s)

MITVNPDGKIMVRRCLVTLRPFRLFVLGIGFFTLCFLMTSLGGQFSARRLGDSPFTIRTEVMGGPESRGV
LRKMSDLLELMVKRMDALARLENSSELHRAGGDLHFPADRMPPGAGLMERIQAIAQNVSDIAVKVDQILR
HSLLLHSKVSEGRRDQCEAPSDPKFPDCSGKVEWMRARWTSDPCYAFFGVDGTECSFLIYLSEVEWFCPP
LPWRNQTAAQRAPKPLPKVQAVFRSNLSHLLDLMGSGKESLIFMKKRTKRLTAQWALAAQRLAQKLGATQ
RDQKQILVHIGFLTEESGDVFSPRVLKGGPLGEMVQWADILTALYVLGHGLRVTVSLKELQSNLGVPPGR
GSCPLTMPLPFDLIYTDYHGLQQMKRHMGLSFKKYRCRIRVIDTFGTEPAYNHEEYATLHGYRTNWGYWN
LNPKQFMTMFPHTPDNSFMGFVSEELNETEKRLIKGGKASNMAVVYGKEASIWKLQGKEKFLGILNKYME
IHGTVYYESQRPPEVPAFVKNHGLLPQPEFQQLLRKAKLFIGFGFPYEGPAPLEAIANGCIFLQSRFSPP
HSSLNHEFFRGKPTSREVFSQHPYAENFIGKPHVWTVDYNNSEEFEAAIKAIMRTQVDPYLPYEYTCEGM
LERIHAYIQHQDFCRAPDPALPEAHAPQSPFVLAPNATHLEWARNTSLAPGAWPPAHALRAWLAVPGRAC
TDTCLDHGLICEPSFFPFLNSQDAFLKLQVPCDSTESEMNHLYPAFAQPGQECYLQKEPLLFSCAGSNTK
YRRLCPCRDFRKGQVALCQGCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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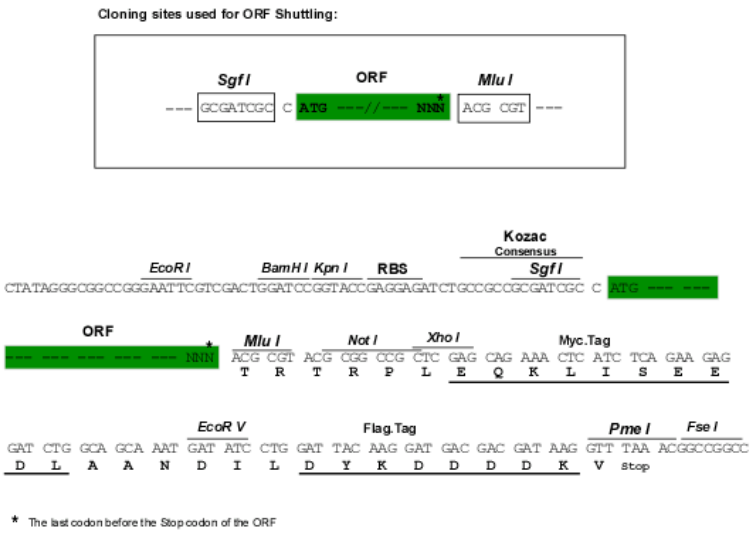
Cloning Scheme:



ACCN: NM_001199172

ORF Size: 2376 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).

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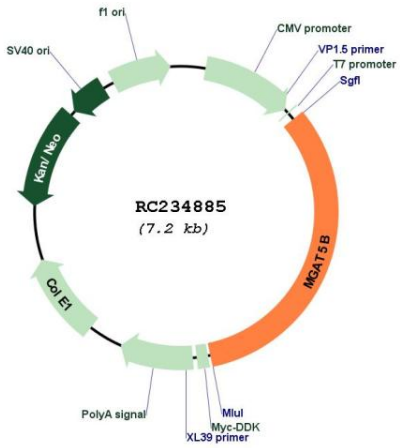
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001199172.2
RefSeq Size:	4252 bp
RefSeq ORF:	2379 bp
Locus ID:	146664
UniProt ID:	Q3V5L5
Cytogenetics:	17q25.2
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	90 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 RC234885

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