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Product datasheet for MG216822

Mgat4c (NM_001162369) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Mgat4c
Synonyms:	9130411I17Rik; GntIVh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG216822 representing NM_001162369
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTAAATTTTATCAAATGAAATATATTTTTCAAATATTGGATAAAATGAGATGCTTGCGAAAACGGT
CTACAGTGTCATTCTTGGGGGTTCTTGTTGTTTTTCTACTATTCATGAACTTGTACATTGAAGATAGCTA
TGTTCTGGAAGGCGACAAGCAACTTATAAGGGAAACATCGACACACCAACTTAATTCTGAACGCTATGTT
CACACTTTCAAGGATTTATCAAACTTCTCAGGAACCATAAATGTCACTTATCGCTATCTGGCTGCCACAC
CTTTACAGAGAAAACGATATCTCACAATTGGACTTTCATCAGTGAAACGAAAAAAAGGAAATTATTTACT
TGACACAATCAAGTCAATTTTTGAACAGTCCAGCTATGAAGAACTAAAGGAAATTTCAGTCGTAGTACAT
CTAGCAGACTTCAATTCATCATGGCGAGATGCCATGGTCCAAGACATTACACAGAAATTTGCCCATCATA
TTATTGCAGGAAGATTAATGGTTATACATGCTCCTGAAGAATATTATCCAGTTCTGGATGGTCTTAAAAG
AAATTACAATGACCCAGAAGATAGAGTCAGATTTCGCTCCAAGCAAAACGTAGATTATGCTTTTCTGCTA
AATTTCTGTGCCAATACTTCTGACTATTACGTGATGCTTGAAGACGATGTTCGGTGTTCCAGAAATTTCT
TAACTGCCATCAAGAAAGTCATAGCATCCTTGGAAGGAACATACTGGGTAACTCTTGAGTTCTCTAAACT
TGGCTACATTGGTAAACTCTATCATTCTCACGATCTCCCACGTCTGGCCCATTTCTTATTAATGTTCTAT
CAAGAAATGCCCTGCGATTGGCTATTGACTCATTTCCGAGGGCTGCTGGCTCAGAAAAATGTGATTCGAT
TTAAACCTTCTCTCTTTCAGCACATGGGGTATTATTCATCCTATAAAGGAACAGAGAATAAACTGAAGGA
TGATGACTTTGAAGAAGAGTCCTTTGACATCCCTGATAACCCCCCAGCGAGTTTCTACACCAACATGAAT
GTCTTTGAAAACTATGAAGCAAGCAAGGCTTACAGTAGTGTTGATGAGTATTTTTGGGGAAAGTCACCTT
CAATGGGAGATACGTTCGTTATTGTATTTGAAAATCCGATTACAATTAAAAAAATTAAAGTGAATACTGG
AACAGAGGACCGGCAGAATGACATCTTACAACATGGAGCCCTAGATGTTGGGGAAAAACTTATTTTTAGC
AAACAAATAAGACAATGTGATACTTACTTAAGACTAGGGGAATTCAAAAATGGATACTTTGAAATGTCAG
ATGTGAATCAAAAAATTCCCTTTGACATACATTGCATGAGGATATGTGTTACCAAAACACAGAAAGAATG
GCTGATAATTAGAAGCATCAGTATTTGGACTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216822 representing NM_001162369
Red=Cloning site Green=Tags(s)

MLKFYQMKYIFQILDKMRCLRKRSTVSFLGVLVVFLLFMNLYIEDSYVLEGDKQLIRETSTHQLNSERYV
HTFKDLSNFSGTINVTYRYLAATPLQRKRYLTIGLSSVKRKKGNYLLDTIKSIFEQSSYEELKEISVVVH
LADFNSSWRDAMVQDITQKFAHHIIAGRLMVIHAPEEYYPVLDGLKRNYNDPEDRVRFRSKQNVDYAFLL
NFCANTSDYYVMLEDDVRCSRNFLTAIKKVIASLEGTYWVTLEFSKLGYIGKLYHSHDLPRLAHFLLMFY
QEMPCDWLLTHFRGLLAQKNVIRFKPSLFQHMGYYSSYKGTENKLKDDDFEEESFDIPDNPPASFYTNMN
VFENYEASKAYSSVDEYFWGKSPSMGDTFVIVFENPITIKKIKVNTGTEDRQNDILQHGALDVGEKLIFS
KQIRQCDTYLRLGEFKNGYFEMSDVNQKIPFDIHCMRICVTKTQKEWLIIRSISIWTS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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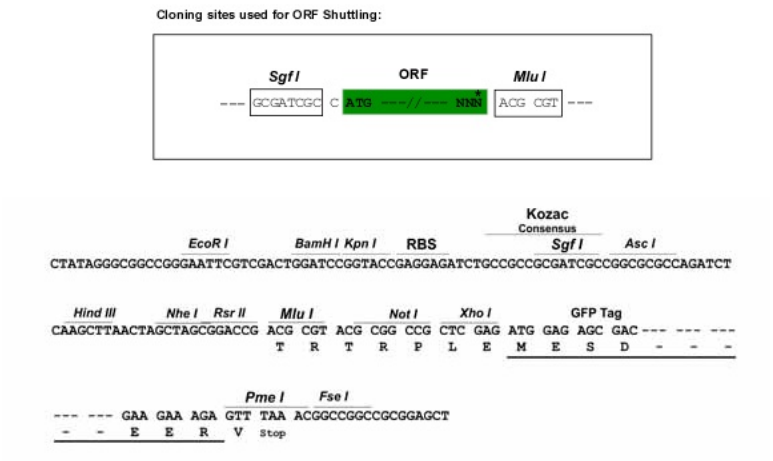
Cloning Scheme:



ACCN: NM_001162369

ORF Size: 1434 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001162369.1, NP_001155841.1

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RefSeq Size: 3735 bp

RefSeq ORF: 1437 bp

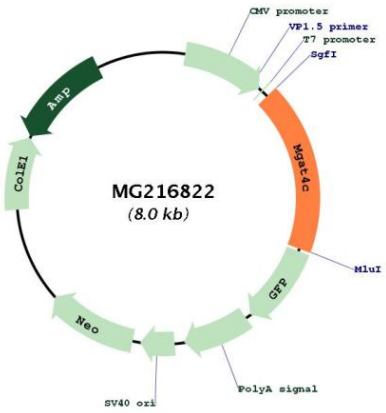
Locus ID: 67569

UniProt ID: Q9D306

Cytogenetics: 10 D1

Gene Summary: Glycosyltransferase that participates in the transfer of N-acetylglucosamine (GlcNAc) to the core mannose residues of N-linked glycans. Catalyzes the formation of the GlcNAcbeta1-4 branch on the GlcNAcbeta1-2Manalpha1-3 arm of the core structure of N-linked glycans. Essential for the production of tri- and tetra-antennary N-linked sugar chains. Does not catalyze the transfer of GlcNAc to the Manalpha1-6 arm to form GlcNAcBeta1-4Manalpha1-6 linkage ('GnT-VI' activity) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216822

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