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Product datasheet for MR206243

Gcnt3 (NM_028087) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt3 (NM_028087) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gcnt3
Synonyms:	2010013H22Rik; 2210021I22Rik; 2210401J11Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206243 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCTGGACTCTGAGGAATTTCAAAGCCAGTACTGCAGGGATCTCCTGTACAAGACCCTGAAGCTGC
CAGCCAAGAGTTCCATCAACTGCTCAGGGGTCATTCGAGGGGAGCAGAAAGCGGTGACCCAGGCTCTGCT
GAATAACCTGGAAATTAAGAAGAAGCAGCAGCTCTTCACAGAGGCCGACTACCTTAGGATGACAGCAGAC
TGTGAGCACTTCAAGACCAAGAGGAAGTTTATACAGGTCCCACTGAGCAAGGAAGAGGCCAGCTTCCCCA
TTGCGTACTCCATGGTGGTGCATGAGAAGATTGAGAACTTCGAAAGGTTGCTGCGAGCTGTGTACACCCC
TCAGAATGTATACTGTGTCCACATGGATCAGAAGTCTTCAGAACCCTTTAAGCAGGCAGTCAGGGCCATC
GTGTCATGCTTCCCCAATGTCTTCATAGCTAGTAAGTTGGTGTCAGTGGTCTATGCTTCCTGGTCCAGGG
TGCAGGCTGACCTAAACTGCATGGAAGACTTGCTTCAGAGCCCCGTGCCATGGAAATACCTCCTGAACAC
CTGTGGGACAGACTTTCCCATCAAAACCAATGCTGAGATGGTCAAGGCCCTCAAGCTATTGAAAGGGCAG
AACAGTATGGAGTCAGAGGTACCACCTCCACATAAAAAATCCCGCTGGAAATATCACTATGAGGTGACAG
ACACATTGCACATGACCAGCAAGAGGAAGACGCCGCCACCTAATAACCTAACCATGTTCACTGGGAATGC
CTACATGGTGGCTTCTCGAGACTTCATTGAACACGTGTTCAGTAACTCAAAAGCCCGGCAACTGATCGAG
TGGGTAAAAGACACCTATAGTCCCGATGAGCACCTTTGGGCCACCCTCCAGCGTGCCTCGTGGATGCCTG
GATCAGATCCCTTGCATCGAAAATTTGACCTGTCAGACATGAGAGCCATTGCGAGACTAACCAAGTGGTA
CGACCATGAGGGAGACATTGAGAACGGGGCACCTTACACGTCTTGCTCAGGAATCCACCAGCGGGCTGTC
TGTGTTTATGGGTCAGGGGACCTGCACTGGATACTTCAGAACCATCACCTCTTGGCCAACAAGTTTGACC
CAAAGGTGGATGATAATGTTCTTCAGTGTTTAGAAGAATATTTACGTCACAAAGCCATCTATGGGACTGA
ACTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

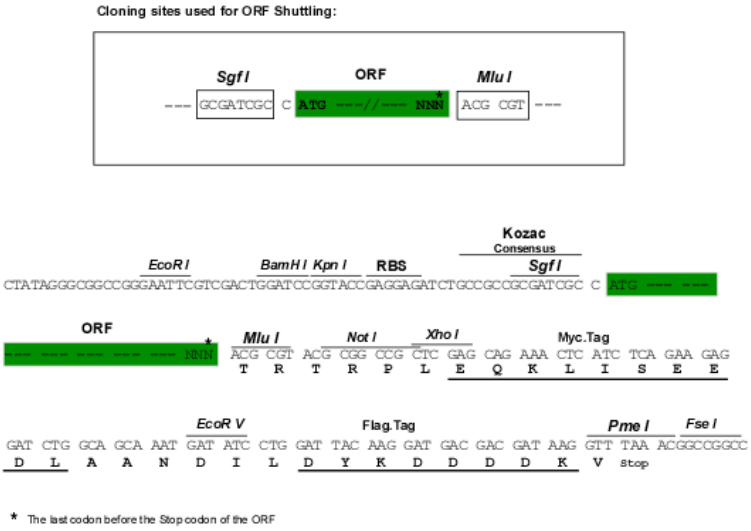
>MR206243 protein sequence
Red=Cloning site Green=Tags(s)

MDLDSEEFQSQYCRDLLYKTLKLPAKSSINCSGVIRGEQKAVTQALLNNLEIKKKQQLFTEADYLRMTAD
CEHFKTKRKFIQVPLSKEEASFPIAYSMVVHEKIENFERLLRAVYTPQNVYCVHMDQKSSEPFKQAVRAI
VSCFPNVFIASKLVSVVYASWSRVQADLNCMEDLLQSPVPWKYLLNTCGTDFPIKTNAEMVKALKLLKGQ
NSMESEVPPPHKKSRWKYHYEVTDTLHMTSKRKTPPPNNLTMFTGNAYMVASRDFIEHVFSNSKARQLIE
WVKDTYSPDEHLWATLQRASWMPGSDPLHRKFDLSDMRAIARLTKWYDHEGDIENGAPYTSCSGIHQRAV
CVYGSGDLHWILQNHHLLANKFDPKVDDNVLQCLEEYLRHKAIYGTEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028087

ORF Size: 1197 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_028087.1

RefSeq Size: 4301 bp

RefSeq ORF: 1314 bp

Locus ID: 72077

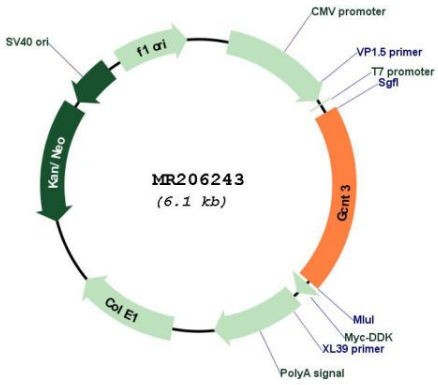
UniProt ID: Q5JCT0

Cytogenetics: 9 D

MW: 46 kDa

Gene Summary: Glycosyltransferase that can synthesize all known mucin beta 6 N-acetylglucosaminides. Mediates core 2 and core 4 O-glycan branching, 2 important steps in mucin-type biosynthesis. Has also I-branching enzyme activity by converting linear into branched poly-N-acetyllactosaminoglycans, leading to introduce the blood group I antigen during embryonic development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206243