

Product datasheet for **MR223750**

Gcnt1 (NM_001136484) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt1 (NM_001136484) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gcnt1
Synonyms:	5630400D21Rik; B130048E03; C2 GlcNAcT; C2GNT; IGnT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223750 representing NM_001136484
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGAGAACTTGTTCGAGGAGACTTTCTCTTGTCTACAAAATACTACTTTATGCTCCTTGTC
 TCTCTTTAATTACCTTCTCTGTTTTAAGAATTCATCAGAAGCCTGAATTTTTAGTGTCAGACACTTGGA
 GCTGGCTGGAGATGATCCTTACAGCAATGTTAATTGCACCAAGATTTTACAGGGTGACCCAGAAGAAATC
 CAGAAGGTGAAGCTTGAGATACTAACAGTGCAATTCAAGAAGCGCCGAGGCGGACACCCCATGACTATA
 TAAACATGACCCGTGACTGTGCCTTTTCATCAGGACACGCAAATATATTGTGGAGCCCTTACTAAAGA
 AGAGGTAGGCTTTCCAATTGCATATTCCATTGTGGTTCATCATAAGATTGAAATGCTTGACAGGCTCCTG
 AGGGCCATCTATAGCCTCAGAATTTCTACTGCATTCACGTGGACAGAAAAGCAGAGGAATCCTTTTTAG
 CCGCGGTGACGGCATCGCATCCTGCTTTGATAATGTCTTTGTGGCCAGCCAGTTGGAGAGTGTTGTTTA
 TCGCTCCTGGAGTCGGGTTAAGGCAGACCTCAACTGCATGAAGGACCTGTACAGAATGAATGCAAACCTGG
 AAGTACTTGATCAATCTCTGTGGTATGGATTTCCCTATTAACCAACCTGGAAATGTACAGGAAGCTCA
 AGTGCTCCACAGGGGAAAACAACCTGGAAGTGAAGATGCCTCCCAACAAGGAAGAGAGATGGAAAAA
 AAGATACACCGTTGTCGATGGGAAGCTGACCAACTGGAATAGTCAAAGCACCGCCCCACTGAAAACCT
 CCTCTCTTTTCAGGCAGTGCCTACTTCTGTGGTCACTAGGGAATATGTAGGCTACGTGCTGGAAAAATGAAA
 ATATTCAAAAGTTGATGGAATGGGCACAGGACACATACAGCCAGATGAGTTCCTCTGGGCCACCATCCA
 AAGGATCCCAGAAGTCCCTGGTCTTTCCCTCAAGCAACAAGTATGACTTGTGACAGATGAATGCCATT
 GCTAGGTTTGTCAAGTGGCAGTACTTCGAAGCCATGTTTCCAACGGTGCCCTTATCCACCGTGCAGTG
 GAGTCCACGTGCGCTCTGTGTGCGTCTTCGGAGCTGGTACTTGAGCTGGATGCTGCGCCAACACCACCT
 TTTTGCCAATAAGTTTGACATGGATGTCGACCCCTTGCCATCCAGTGTGGATGAACATCTGAGGCAT
 AAAGCCCTGGAGAACTTAGAACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223750 representing NM_001136484
 Red=Cloning site Green=Tags(s)

MLRNLFRRLFSCPTKYYFMLLVLSLITFSVLRIHQKPEFFSVRHLELAGDDPYSNVNCKILQGDPEEI
 QKVKLEILTVQFKRPRRTPHDYINMTRDCASFIRTRKYIVEPLTKEEVGFPIAYSIVVHHKIEMLDRLL
 RAIYMPQNFYCIHVRKAEESFLAAVQGIASCFDNVVFASQLESVVYASWSRVKADLNCMKDLYRMNANW
 KYLINLCGMDFPIKTNLEIVRKLKSTGENNLETEKMPPNKEERWKKRYTVVDGKLTNTGIVKAPPPLKT
 PLFSGSAYFVVTREYVGVLENENIQKLEWAQDTYSPDEFWATIQRIVEVPGSFPSSNKYDLSDMNAI
 ARFVKWQYFEGHVSNGAPYPPCSGVHVRVCFVAGDLSWMLRQHHLFANKFDMDVDPFAIQCLDEHLRH
 KALENLEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_h11.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001136484

ORF Size: 1284 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_001136484.3](#), [NP_001129956.3](#)

RefSeq Size: 4614 bp

RefSeq ORF: 1287 bp

Locus ID: 14537

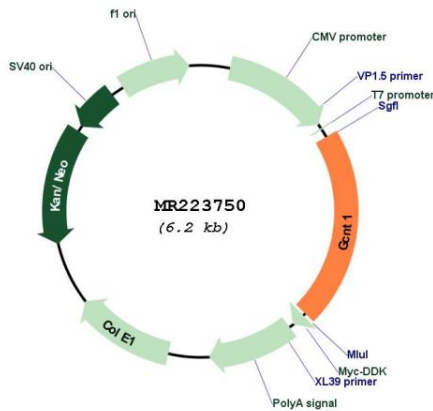
UniProt ID: [Q09324](#)

Cytogenetics: 19 12.75 cM

MW: 50.3 kDa

Gene Summary: Glycosyltransferase that catalyzes the transfer of an N-acetylglucosamine moiety onto mucin-type core 1 O-glycan to form the branched mucin-type core 2 O-glycan. Mucin-type core 2 O-glycans play an important role in leukocyte extravasation as they serve as scaffolds for the display of the selectin ligand sialyl Lewis X by leukocytes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223750