

Product datasheet for **MR229859**

Gcnt1 (NM_173442) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt1 (NM_173442) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MR229859 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAGAACTTGTTTCGGAGGAGACTTTTCTTGTCTACAAAATACTACTTTATGCTCCTTGTC
 TCTCTTTAATTACCTTCTCTGTTTTAAGAATTCATCAGAAGCCTGAATTTTTTCAGTGTGACACACTTGG
 GCTGGCTGGAGATGATCCTTACAGCAATGTTAATTGCACCAAGATTTTACAGGGTGACCCAGAAGAAATC
 CAGAAGGTGAAGCTTGAAGATACTAACAGTGCAATCAAGAAGCGCCCGAGGCGGACACCCCATGACTATA
 TAAACATGACCCGTGACTGTGCCTTTTTCATCAGGACACGCAAAATATTTGTGGAGCCCTTACTAAAGA
 AGAGGTAGGCTTTCCAATTGCATATTCCATTGTGGTTCATCATAAGATTGAAATGCTTGACAGGCTCCTG
 AGGGCCATCTATATGCCTCAGAATTTCTACTGCATTCACGTGGACAGAAAAGCAGAGGAATCCTTTTTAG
 CCGCGGTGACGGCATCGCATCCTGCTTTGATAATGTCTTTGTGGCCAGCCAGTTGGAGAGTGTGTTTA
 TCGCTCCTGGAGTCGGGTTAAGGCAGACCTCAACTGCATGAAGGACCTGTACAGAATGAATGCAAACTGG
 AAGTACTTGATCAATCTCTGTGGTATGGATTTCCCTATTAACCAACCTGGAAATGTGACAGGAAGCTCA
 AGTGCTCCACAGGGGAAAACAACCTGGAAGTGAAGATGCCTCCCAACAAGGAAGAGAGATGGAAAA
 AAGATACACCGTTGTCGATGGGAAGCTGACCAACTGGAATAGTCAAAGCACCGCCCCACTGAAAACCT
 CCTCTCTTTTCAGGCAGTGCCTACTTCTGTGGTCACTAGGGAATATGTAGGCTACGTGCTGGAAAAATGAA
 ATATTCAAAAGTTGATGGAATGGGCACAGGACACATACAGCCAGATGAGTTCCTCTGGGCCACCATCCA
 AAGGATCCCAGAAGTCCCTGGTTCTTTCCCTCAAGCAACAAGTATGACTTGTGACAGATGAATGCCATT
 GCTAGGTTTGTCAAGTGGCAGTACTTCGAAGGCCATGTTTCCAACGGTGCCCTTATCCACCGTGCAGTG
 GAGTCCACGTGCGCTCTGTGTGCGTCTTCGGAGCTGGTACTTGAAGTGGATGCTGCGCCAACACCACCT
 TTTTGCCAATAAGTTTGACATGGATGTCGACCCCTTGGCATCCAGTGTGGATGAACATCTGAGGCAT
 AAAGCCCTGGAGAACTTAGAACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229859 protein sequence
 Red=Cloning site Green=Tags(s)

MLRNLFRRLFSCTKYFMLLVLSLITFSVLRIHQKPEFFSVRHLELAGDDPYSNVNCTKILQGDPEEI
 QKVKLEILTVQFKRPRRTPHDYINMTRDCASFIRTRKYIVEPLTKEEVGFPIAYSIVVHHKIEMLDRLL
 RAIYMPQNFYCIHVRKAEEESFLAAVQGIASCFDNVVFASQLESVVYASWSRVKADLNCMKDLYRMNANW
 KYLINLCGMDFPKIKTNLEIVRKLKSTGENNLETEKMPPNKEERWKKRYTVVDGKLTNTGIVKAPPPLKT
 PLFSGSAYFVVTREYVGVLENENIQKLEWAQDTYSPDEFWATIQRIPVPGSFPSSNKYDLSDMNAI
 ARFVKWQYFEGHVSNGAPYPSCSVHVRVSVCFGAGDLSWMLRQHHLFANKFDMDVDPFAIQCLDEHLRH
 KALENLEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_173442

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_173442.5](#), [NP_775618.3](#)

RefSeq Size: 4612 bp

RefSeq ORF: 1287 bp

Locus ID: 14537

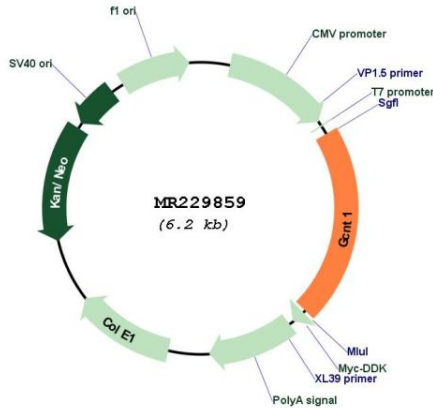
UniProt ID: [Q09324](#)

Cytogenetics: 19 12.75 cM

MW: 49.8 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 MR229859