

## Product datasheet for **MC227648**

### Gcnt1 (NM\_173442) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt1 (NM_173442) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC227648 representing NM\_173442  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGAGAACTTGTTTCGGAGGAGACTTTCTCTTGTCTACAAAATACTACTTTATGCTCCTTGTC  
 TCTCTTTAATTACCTTCTCTGTTTTAAGAATTCATCAGAAGCCTGAATTTTTTCAGTGTGACACACTTGA  
 GCTGGCTGGAGATGATCCTTACAGCAATGTTAATTGCACCAAGATTTTACAGGGTGACCCAGAAGAAATC  
 CAGAAGGTGAAGCTTGAGATACTAACAGTGCAATTCAAGAAGCGCCGAGGCGGACACCCCATGACTATA  
 TAAACATGACCCGTGACTGTGCCTTTTCATCAGGACACGCAAATATATTGTGGAGCCCTTACTAAAGA  
 AGAGGTAGGCTTTCCAATTGCATATTCCATTGTGGTTCATCATAAGATTGAAATGCTTGACAGGCTCCTG  
 AGGGCCATCTATATGCCTCAGAATTTCTACTGCATTACGTGGACAGAAAAGCAGAGGAATCCTTTTTAG  
 CCGCGGTGACGGCATCGCATCCTGCTTTGATAATGTCTTTGTGGCCAGCCAGTTGGAGAGTGTTGTTTA  
 TCGCTCCTGGAGTCGGGTTAAGGCAGACCTCAACTGCATGAAGGACCTGTACAGAATGAATGCAAACCTGG  
 AAGTACTTGATCAATCTCTGTGGTATGGATTTCCCTATTAACCAACCTGGAAATGTGACGGAAGCTCA  
 AGTGCTCCACAGGGGAAAACAACCTGGAAGTGAAGATGCCTCCCAACAAGGAAGAGAGATGGAAAA  
 AAGATACACCGTTGTCGATGGGAAGCTGACCAACTGGAATAGTCAAAGCACCGCCCCACTGAAAACCT  
 CCTCTCTTTTCAGGCAGTGCCTACTTCTGTGGTCACTAGGGAATATGTAGGCTACGTGCTGGAAAATGAAA  
 ATATTCAAAAGTTGATGGAATGGGCACAGGACACATACAGCCAGATGAGTTCCTCTGGGCCACCATCCA  
 AAGGATCCCAGAAGTCCCTGGTCTTTCCCTCAAGCAACAAGTATGACTTGTGACAGATGAATGCCATT  
 GCTAGGTTTGTCAAGTGGCAGTACTTCGAAGGCCATGTTTCCAACGGTGCCCTTATCCACCGTGCAGTG  
 GAGTCCACGTGCGCTCTGTGTGGTCTTCGGAGCTGGTACTTGAGCTGGATGCTGCGCCAACACCACCT  
 TTTTGCCAATAAGTTTGACATGGATGTCGACCCCTTGCCATCCAGTGTTTGGATGAACATCTGAGGCAT  
 AAAGCCCTGGAGAACTTAGAACCT**AA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_173442
- Insert Size:** 1287 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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

**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]  
Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.