

## Product datasheet for **MR214774**

### Gcnt4 (NM\_001166065) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt4 (NM_001166065) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gcnt4
Synonyms:	C2gnt3; Gm73; Gm279
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR214774 representing NM\_001166065  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGATATTCAGATGTTGCTTTAAATACACTCTCCAGCAGAACTCTTCATCCTCCTCTTAACCTGT  
 GGCTGTTCTCCTGTTGAAGCTCCTAAATGTGGGCAGGCTCCTCTCCCTCAAAGAGACATTTACTTAGT  
 TGAATACTCCCTAAGTACATCACCATTTGTGAGGAACAGGTTCCCCGAGTCTGGGGATGCAGCCAGGGAC  
 AACGTTAACTGCTCGGGGTCTACGAGCAGGACCTTTGGAAATCGGCAAGAGTCTAGAAATCAGAAGAC  
 GGAGCATCATCGACTTGGAGGACGGTGTGTCGTGGCGATGACAAGTACTGTGACGTTTATCAGACCTT  
 AAGGCAGTACCATGAAAAGCTGGTTTCAAGGGAGGAAGAGGACTTCCCCATAGCCTATTCGCTGGTCGTC  
 CACAAAGATGCCATTATGGTTGAGCGTGTGATCCGAGCTATTTACAACCAGCACAACTTTACTGCATCC  
 ATATGACCTGAAGTACCGGACAGTTCAAAGCTGCCATGAACAACCTAGCTAAGTGTCTCCCAATAT  
 CTTTCATCGCTTCAAATAGAGACTGTGGAGTATGCTCACATATCCAGGCTCCAGGCCGATTGGAAGTGC  
 TTATCAGACCTCCTCAAGTCTTCGGTTCAGTGGAAAGTACGTCATCAACCTCTGTGGGCAAGACTTTCCCC  
 TAAAGTCAAATTTGAATTAGTGACAGAGCTGAAAAGTCTCCAAGGAAGGAATATGTTAGAGACGGTGAG  
 ACCCCCCAGTGCTAAGACGGAGAGGTTACCTACCATCATGAGCTCAGACAGGTGCCTTATGATTATATG  
 AAGCTACCAGTAAAGACGAACGCTCTCAAGGGGACCCCTCATAACATTCAGGTATTTGTGGGCAGTG  
 CCTATTTTGTTTAAGTCGAGCATTTGTTAAATATATTTTCAACAGCTCCCTCGTTGAAGACTTTTTTGC  
 CTGGTCTAAAGATACATATTCCTGACGAGCACTTTTGGCCACCTTAATCCGGATACCAGGAATACCC  
 GGGGGAATTTCCAGTTCATCTCAGGACGTGTGACCTGCAGAGTAAGACCCGCTGGTCAAATGGTTTT  
 ACTACGAAGGCTTTCTACCCCAATTGCCTGGCTCTCACCTCGAAGTGTGTGATTTACGGAGGCTGC  
 AGAACTACGGTGGCTCTTAAACGAAGGGCATTGGTTTGCTAATAAGTTTGATTCTAAAGTTGACCCCATC  
 TTGATGAAATGTCTGGCAGAAAACTTGAAGAGCAACAGAGAAAGTTGATTGCTTTGCTTCAGAGAAGT  
 TCATGACAGAGGGAACCCGCCAAAGCCACACATTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR214774 representing NM\_001166065  
 Red=Cloning site Green=Tags(s)

MKIFRCCFKYTLQQLFILLTLWLFLSLLKLLNVGRLLFPQRDIYLVESLSTSPFVNRNRPESGDAARD  
 NVNCSGVYEHEPLEIGKSLEIRRRSIIDLEDGDVVAMTSDCDVYQTLRQYHEKLVSRREEDFPIAYSLVV  
 HKDAIMVERLIRAIYNQHNLVYCIHYDLKSPDTFKAAMNNLAKCFPNIFIASKLETVEYAHISRLQADWNC  
 LSDLLKSSVQWKYVINLCGQDFPLKSNFELVTELSLQGRNMLETVRPPSAKTERFTYHHELQVVPYDYM  
 KLPVKTNVSKGAPPHNIQVFVGSAYFVLSRAFKYIFNSSLVEDFFAWSKDTYSPDEHFWATLIRIPGIP  
 GGISSSSQDVSDLSKTRLVKWFYEGFLYPNCTGSHLRSVCIYGAAELRWLLNEGHWFANKFDSKVDPI  
 LMKCLAEKLEEQQRKLIALSSEKFMTEGTRQSHTL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9064\\_d09.zip](https://cdn.origene.com/chromatograms/mm9064_d09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001166065

**ORF Size:** 1365 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\\_001166065.2](#)

**RefSeq Size:** 5107 bp

**RefSeq ORF:** 1368 bp

**Locus ID:** 218476

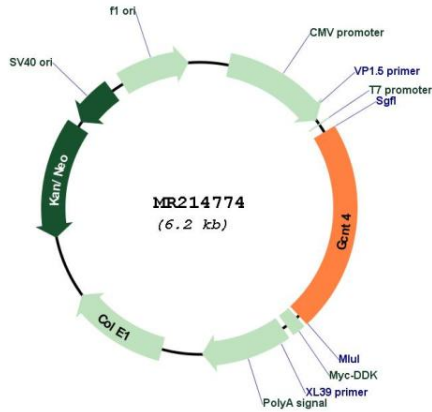
**UniProt ID:** [E9Q649](#)

**Cytogenetics:** 13 D1

**MW:** 52.8 kDa

**Gene Summary:** Glycosyltransferase that mediates core 2 O-glycan branching, an important step in mucin-type biosynthesis. Does not have core 4 O-glycan or I-branching enzyme activity. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR214774