

Product datasheet for **RC202007**

GCNT3 (NM_004751) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | GCNT3 (NM_004751) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | GCNT3 |
| Synonyms: | C2/4GnT; C2GNT2; C2GNTM; C24GNT; GNTM |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC202007 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTCAATGGAAGAGACTCTGCCAGCTGCATTACTTGTGGCTCTGGGCTGCTATATGCTGCTGGCCA
 CTGTGGCTCTGAAACTTTCTTTTCAGTTGAAGTGTGACTCTGACCACTTGGGTCTGGAGTCCAGGAATC
 TCAAAGCCAGTACTGTAGGAATATCTTGTATAATTTCTGAAACTTCCAGCAAAGAGGTCTATCAACTGT
 TCAGGGGTACCCGAGGGGACCAAGAGGCACTGCTTCAGGCTATTCTGAATAACCTGGAGGTCAAGAAGA
 AGCGAGAGCCTTTACAGACACCCACTACCTCTCCCTCACCAGAGACTGTGAGCACTTCAAGGCTGAAAG
 GAAGTTCATACAGTTCCTACTGAGCAAAGAAGAGTGGAGTCCCTATTGCATACCTATGGTGATTCAT
 GAGAAGATTGAAACTTTGAAAGGCTACTGCGAGCTGTGTATGCCCTCAGAACATATACTGTGTCCATG
 TGGATGAGAAGTCCCGAAAACCTTCAAAGAGGCGGTCAAAGCAATTATTTCTTGCTTCCAAATGTCTT
 CATAGCCAGTAAGCTGGTTCGGGTGGTTTATGCCTCCTGGTCCAGGTGCAAGCTGACCTCAACTGCATG
 GAAGACTTGCTCCAGAGCTCAGTGCCGTGGAAATACTTCCTGAATACATGTGGGACGGACTTTCCTATAA
 AGAGCAATGCAGAGATGGTCCAGGCTCTCAAGATGTTGAATGGGAGGAATAGCATGGAGTCAAGGTACC
 TCTAAGCACAAAGAAACCCGCTGGAAATACCTTTGAGGTAGTGAGAGACACATTACACCTAACCAAC
 AAGAAGAAGGATCCTCCCTTATAATTTAACTATGTTTACAGGGAATGCGTACATTGTGGCTTCCCGAG
 ATTTCTGCAACATGTTTTGAAGAACCCTAAATCCCAACAACCTGATTGAATGGGTAAAAGACACTTATAG
 CCCAGATGAACACCTCTGGGCCACCTTCAGCGTGCACGGTGGATGCCTGGCTCTGTTCCCAACACCCC
 AAGTACGACATCTCAGACATGACTTCTATTGCCAGGCTGGTCAAGTGGCAGGGTCAAGGAGACATCG
 ATAAGGGTGTCTCTTATGCTCCCTGCTCTGGAATCCACCAGCGGCTATCTGCGTTTATGGGGCTGGGGA
 CTGAAATTGGATGCTTCAAACCATCACCTGTTGGCCAACAAGTTTGACCCAAAGGTAGATGATAATGCT
 CTTCAGTGCTTAGAAGAATACCTACGTTATAAGGCCATCTATGGGACTGAACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202007 protein sequence
 Red=Cloning site Green=Tags(s)

MVQWKRLCQLHYLWALGCYMLLATVALKLSFRLKCDSDHLGLESRESQSQYCRNILYNFLKLPAKRSINC
 SGVTRGDQEAFLQAILNNLEVKKKREPFDTHYLSL TRDCEHFKAERKFIQFPLSKEEVEFPIAYSMVIH
 EK IENFERLLRAYVAPQNIYCVHVDEKSPETFKEAVKAIISCFPNVFIASKLVRVYASWSRVQADLNCM
 EDLLQSSVPWKYFLNCTGDFPIKSNAEMVQALKMLNGRNSMESEVPPKHKETRWKYHFVVRDTLHLTN
 KKKDPPPNLTMFTGNAYIVASRDFVQHVLPKPKSQQLIEWVKDTYSPDEHLWATLQRARWMPGSPNHP
 KYDISDMTSIARLVKQWQHEGDIDKGAPYAPCSGIHQRAICVYAGDLNWMLQNHLLANKFDPKVDDNA
 LQCLEEYLRYKAIYGTTEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6011_a05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004751

ORF Size: 1314 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004751.3](#)

RefSeq Size: 2240 bp

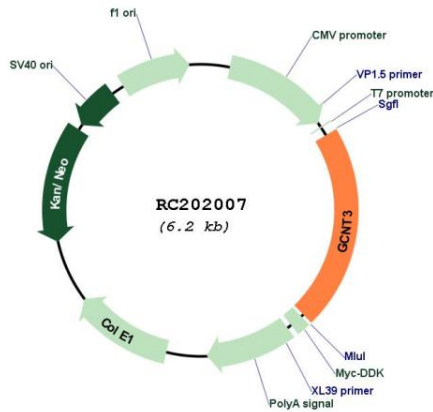
RefSeq ORF: 1317 bp

Locus ID: 9245

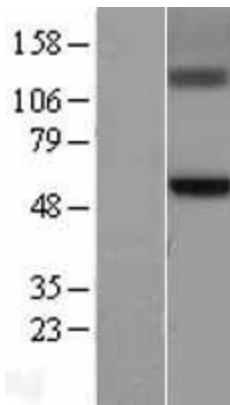
UniProt ID: [O95395](#)
Cytogenetics: 15q22.2
Protein Families: Transmembrane
Protein Pathways: Metabolic pathways, O-Glycan biosynthesis
MW: 50.9 kDa

Gene Summary: This gene encodes a member of the N-acetylglucosaminyltransferase family. The encoded protein is a beta-6-N-acetylglucosamine-transferase that catalyzes the formation of core 2 and core 4 O-glycans on mucin-type glycoproteins.[provided by RefSeq, Apr 2009]

Product images:



Circular map for RC202007



Western blot validation of overexpression lysate (Cat# [LY401499]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202007 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).