

Product datasheet for **RC214560**

C2GNT3 (GCNT4) (NM_016591) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C2GNT3 (GCNT4) (NM_016591) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C2GNT3
Synonyms:	C2GNT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC214560 representing NM_016591
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGATATTCAAATGTTATTTTAAACATACCCTACAGCAGAAAGTTTTATCCTGTTTTTAAACCCTAT
 GGCTGCTCTCTTTGTTAAAGCTTCTAAATGTGAGACGACTCTTTCCGCAAAAAGACATTTACTTGGTTGA
 GACTCCCTAAGTACCTCGCCTTTTGAAGAAACAGATACACTCATGTTAAGGATGAAGTCAAGTATGAA
 GTTAACTGTTCCGGTATCTATGAACAGGAGCCTTTGGAAATTGGAAAGAGTCTGGAAATAAGAAGAAGGG
 ACATCATTGACTTGGAGGATGATGATGTTGTGGCAATGACCAGTGATTGTGACATTTATCAGACTCTAAG
 AGGTTATGCTCAAAGCTTGTCTCAAAGGAGGAGAAAAGCTTCCAATAGCCTATTCTTTGGTTGCCAC
 AAAGATGCAATTATGGTTGAAAGCTTATCCATGCTATATAACAACGACACAATATTTACTGCATCCATT
 ATGATCGTAAGGCACCTGATACCTCAAAGTGGCATGAACAATTTAGCTAAGTGCTTCTCCAATATTTT
 CATTGCTTCAAATTAGAGGCTGTGGAATATGCCACATTTCCAGACTCCAGGCTGATTTAAATTGCTTG
 TCGGACCTTCTGAAGTCTCAATCCAGTGGAAATATGTTATCAACTTGTGTGGGCAAGATTTTCCCCTGA
 AGTCAAATTTTGAATTGGTGTGTCAGAGTTGAAAAACTCAATGGAGCAAATATGTTGGAGACGGTGAACC
 CCCAAACAGTAAATTGGAAAGATTCACTTACCATCATGAACTTAGACGGGTGCCTTATGAATATGTGAAG
 CTACCAATAAGGACAAACATCTCCAAGGAAGCACCCCCCATAACATTAGATATTTGTTGGCAGTGCTT
 ATTTTGTTTTAAAGTCAAGCATTGTGTTAAATATATTTTCAACAACCCATCGTTCAAGACTTTTTTGCCTG
 GTCTAAAGACACATACTCTCTGATGAGCACTTTTGGGCTACCTTGATTCCGGTTCAGGAATACCTGGG
 GAGATTCCAGATCAGCCAGGATGTGTCTGATCTGCAGAGTAAGACTCGCCTTGTAAGTGAATTACT
 ATGAAGGCTTTTCTATCCCAGTTGACTGGATCTCACCTCGAAGCGTGTGATTTATGGAGCTGCAGA
 ATTAAGGTGGCTTATCAAAGATGGACATTGGTTTGCTAATAAATTTGATTCTAAGGTGGACCTATCTTG
 ATTAATGCTTGGCAGAAAAGCTTGAAGAACAGCAGAGAGACTGGATCACTTTGCCCTCAGAAAAGTTAT
 TTATGGATAGAAATCTCACTACCACATCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214560 representing NM_016591
 Red=Cloning site Green=Tags(s)

MKIFKCYFKHTLQQVFILFLTLWLLSLLKLLNVRRLFPQKDIYLVEYSLSTSPFVRNRYTHVKDEVRYE
 VNCSGIYEQEPLEIGKSLEIRRRDIIDLEDDVVAMTSDCDIYQTLRGYAQKLVSKEEKSFPIAYSLVVH
 KDAIMVERLIHAIYNQHNIYCIHYDRKAPDTFKVAMNNLAKCFSNIFIASKLEAVEYAHISRLQADLNCL
 SDLLKSSIQWKYVINLCGQDFPLKSNFELVSELKLNANMLETVKPPNSKLERFTYHHELRRVPYEVVK
 LPIRTNISKEAPPHNIQIFVGSAYFVLSQAFVKYIFNNSIVQDFFAWSKDTYSPDEHFWATLIRVPGIPG
 EISRSAQDVSDLQSKTRLVKWNYEGFFYPSCTGSHLRSVCIYGAAELRWLIKDGHWFAKFKDVKVDPIL
 IKCLAELQEQRDWITLPSEKLFMDRNLTTTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8009_e05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_016591

ORF Size: 1359 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_016591.2](#), [NP_057675.1](#)

RefSeq Size: 3435 bp

RefSeq ORF: 1362 bp

Locus ID: 51301

Cytogenetics: 5q13.3

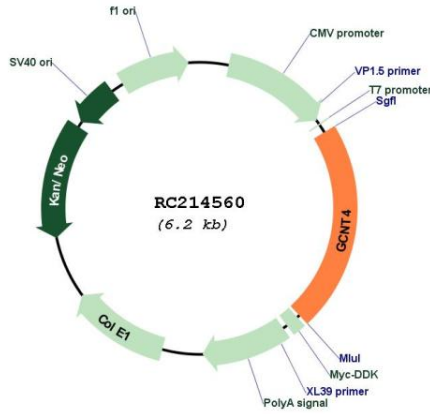
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

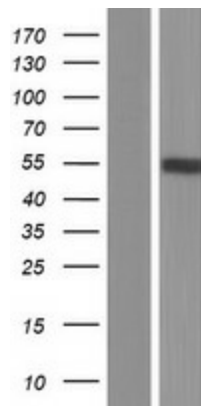
MW: 52.9 kDa

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 RC214560



Western blot validation of overexpression lysate (Cat# [LY413840]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214560 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).