

## Product datasheet for SC304436

### C2GNT3 (GCNT4) (NM\_016591) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C2GNT3 (GCNT4) (NM_016591) Human Untagged Clone
Tag:	Tag Free
Symbol:	GCNT4
Synonyms:	C2GNT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304436 representing NM_016591. Blue=Insert sequence Red=Cloning site Green=Tag(s)

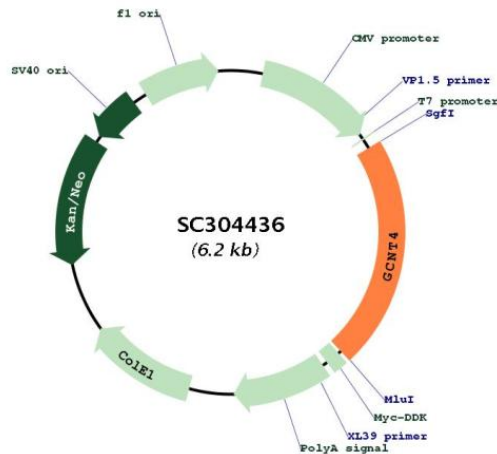
```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGATATTCAAATGTTATTTTAAACATACCCTACAGCAGAAAGTTTTTCATCCTGTTTTTAAACCTA
TGGCTGCTCTCTTTGTTAAAGCTTCTAAATGTGAGACGACTCTTCCGCAAAAAGACATTTACTTGGTT
GAGTACTCCCTAAGTACCTCGCCTTTTGTAAAGAAACAGATACACTCATGTTAAGGATGAAGTCAGGTAT
GAAGTAACTGTTCCGGTATCTATGAACAGGAGCCTTTGGAAATTGAAAGAGTCTGAAATAAGAAGA
AGGGACATCATTGACTTGGAGGATGATGATGTTGTGGCAATGACCAGTGATTGTGACATTTATCAGACT
CTAAGAGGTTATGCTCAAAGCTTGTCTCAAAGGAGGAGAAAAGCTTCCCAATAGCCTATTTCTTTGGTT
GTCCACAAAGATGCAATTATGGTTGAAAGGCTTATCCATGCTATATACAACCAGCACAATTTACTGTC
ATCCATTATGATCGTAAGGCACCTGATACCTTCAAAGTTGCCATGAACAATTTAGCTAAGTGCTTCTCC
AATATTTTTCATTGCTTCCAAATAGAGGCTGTGGAATATGCCACATTTCCAGACTCCAGGCTGATTTA
AATTGCTGTGCGACCTTCTGAAGTCTTCAATCCAGTGGAAATATGTTATCAACTGTGTGGGCAAGAT
TTTCCCTGAAGTCAAATTTTGAATTGGTGTGAGAGTTGAAAAACTCAATGGAGCAAATATGTTGGAG
ACGGTGAACCCCAACAGTAAATTGAAAGATTCACCTACCATCATGAACTTAGACGGGTGCCTTAT
GAATATGTGAAGTACCAATAAGGACAAACATCTCCAAGGAAGCACCCCCCAATAACATTCAGATATTT
GTTGGCAGTGCTTATTTTGTAAAGTCAAGCATTGTTAAATATATTTTCAACAACCTCCATCGTTCAA
GACTTTTTTGCCTGGTCTAAAGACACATACTCTCCTGATGAGCACTTTTGGGCTACCTTGATTCGGGTT
CCAGGAATACCTGGGAGATTTCCAGATCAGCCAGGATGTGTCTGATCTGCAGAGTAAGACTCGCCTT
GTCAAGTGGAAATTAATGAAGGCTTTTCTATCCAGTTGACTGGATCTCACCTCGAAGCGTGTGT
ATTTATGGAGCTGCAGAATTAAGGTGGCTTATCAAAGATGGACATTGGTTTGCTAATAAATTTGATTCT
AAGGTGGACCCTATCTTGATTAATGCTTGGCAGAAAAGCTTGAAGAACAGCAGAGAGACTGGATCACT
TTGCCCTCAGAAAAGTTATTTATGGATAGAAATCTCACTACCACATCATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```



[View online »](#)

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_016591

Insert Size: 1362 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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](#)

RefSeq Size: 3436 bp

RefSeq ORF: 1362 bp

Locus ID: 51301

Cytogenetics: 5q13.3

<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, O-Glycan biosynthesis
<b>MW:</b>	53.1 kDa
<b>Gene Summary:</b>	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]