

## Product datasheet for RC215597

### GCNT2 (NM\_001491) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GCNT2 (NM_001491) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GCNT2
Synonyms:	bA360O19.2; bA421M1.1; CCAT; CTRCT13; GCNT2C; GCNT5; IGNT; II; NACGT1; NAGCT1; ULG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215597 representing NM_001491 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTTTATCAATGCGTTACCTCTTCATAATTTCTGTCTCTAGTGTAATTATTTTTATCGTCTTCTCTG  
TGTTCAATTTGGGGGAGATCCAAGCTTCAAAGGCTAAATATCTCAGACCCTTTGAGGCTGACTCAAGT  
TTGCACATCTTTATCAATGGAAAAACAGTTCCTGTGGAAAAACAACTAATGATCCATGAGAAGTCT  
TCTTGCAAGGAATACTTGACCCAGAGCCACTACATCACAGCCCTTTATCTAAGGAAGAAGCTGACTTTC  
CCTTGGCATATATAATGGTCATCCATCATCACTTTGACACCTTTGCAAGGCTCTTCAGGGCTATTTACAT  
GCCCAAATATCTACTGTTCATGTGGATGAAAAAGCAACAACCTGAATTTAAAGATGCGGTAGAGCAA  
CTATTAAGCTGCTTCCAAACGCTTTTCTGGCTTCCAAGATGGAACCCGTTGTCTATGGAGGGATCTCCA  
GGCTCCAGGCTGACCTGAACTGCATCAGAGATCTTTCTGCCTTCGAGGTCTCATGGAAGTACGTTATCAA  
CACCTGTGGGCAAGACTTCCCCGTGAAAACCAACAAGGAAATAGTTTCAGTATCTGAAAGGATTTAAAGGT  
AAAAATATCACCCAGGGGTGCTGCCCCAGCTCATGCAATTGGACGGACTAAATATGTCCACCAAGAGC  
ACCTGGCAAAGAGCTTTCCTATGTGATAAGAACAACAGCGTTGAAACCGCTCCCCCATAATCTCAC  
AATTTACTTTGGCTCTGCCTATGTGGCTCTATCAAGAGAGTTTGCCAACCTTGTCTGCATGACCCAGG  
GCTGTTGATTTGCTCCAGTGGTCCAAGGACACTTTCAGTCTGATGAGCATTCTGGGTGACACTCAATA  
GGATTCAGGTGTTCTGGCTCTATGCCAAATGCATCCTGGACTGAAACCTCAGAGCTATAAAGTGGAG  
TGACATGGAAGACAGACCGGAGGCTGCCACGGCCACTATGTACATGGTATTTGTATCTATGAAACCGGA  
GACTTAAAGTGGCTGGTTAATTCACCAAGCCTGTTTGCTAACAAGTTTGAGCTTAATACCTACCCCTTA  
CTGTGGAATGCCTAGAAGTGAAGCATCGCGAAAGAACCCTCAATCAGAGTGAACTGCGATACAACCCAG  
CTGGTATTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_001491.3](#)

**RefSeq Size:** 4691 bp

**RefSeq ORF:** 1203 bp

**Locus ID:** 2651

**UniProt ID:** [Q06430](#)

**Cytogenetics:** 6p24.3-p24.2

**Domains:** Branch

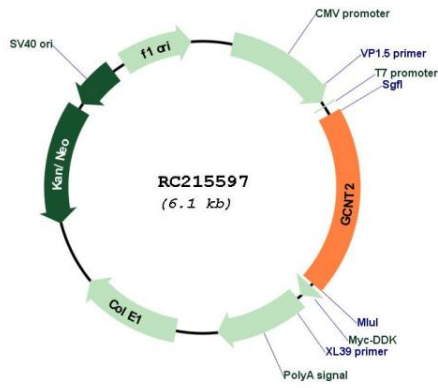
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways

**MW:** 45.7 kDa

**Gene Summary:** This gene encodes the enzyme responsible for formation of the blood group I antigen. The i and I antigens are distinguished by linear and branched poly-N-acetyllactosaminoglycans, respectively. The encoded protein is the I-branching enzyme, a beta-1,6-N-acetylglucosaminyltransferase responsible for the conversion of fetal i antigen to adult I antigen in erythrocytes during embryonic development. Mutations in this gene have been associated with adult i blood group phenotype. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC215597