

Product datasheet for **RG214131**

GCNT1 (NM_001490) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCNT1 (NM_001490) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GCNT1
Synonyms:	C2GNT; C2GNT-L; C2GNT1; G6NT; NACGT2; NAGCT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214131 representing NM_001490 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGGACGTTGCTGCGAAGGAGACTTTTTCTTATCCCACCAAATACTACTTTATGGTTCCTGTTT
TATCCCTAATCACCTTCCGTTTTAAGGATTCATCAAAAGCCTGAATTTGTAAGTGCAGACACTTGG
GCTTGCTGGGAGAATCCTAGTAGTGATTAATTGCACCAAAGTTTTACAGGGTATGTAATGAAATC
CAAAAGGTAAGCTTGAGATCCTAACAGTGAAATTTAAAAAGCGCCCTCGGTGGACACCTGACGACTATA
TAAACATGACCAGTGACTGTTCTTTTCATCAAGAGACGCAAAATATTTGTAGAACCCCTTAGTAAAGA
AGAGGCGGAGTTTCCAATAGCATATTCTATAGTGGTTCATCACAAGATTGAAATGCTTGACAGGCTGCTG
AGGGCCATCTATATGCCTCAGAATTTCTATTGCATTCATGTGGACACAAAATCCGAGGATTCCTATTTAG
CTGCAGTGATGGGCATCGCTTCCGTTTTAGTAATGTCTTTGTGGCCAGCCGATTGGAGAGTGTGGTTTA
TGCATCGTGGAGCCGGTTCAGGCTGACCTCAACTGCAATGAAGGATCTCTATGCAATGAGTGCAAACTGG
AAGTACTTGATAAATCTTTGTGGTATGGATTTCCCATAAAACCAACCTAGAAATGTGAGGAACTCA
AGTTGTTAATGGGAGAAAACAACCTGGAACGGAGAGGATGCCATCCATAAAGAAGAAAGGTGGAAGAA
GCGGTATGAGGTCGTTAATGGAAGCTGACAAACACAGGGACTGTCAAAATGCTTCCCTCCACTCGAAACA
CCTCTCTTTCTGGCAGTGCCTACTTCGTGGTTCAGTAGGGAGTATGTGGGTATGTACTACAGAATGAAA
AAATCCAAAAGTTGATGGAGTGGGCACAAGACACATACAGCCCTGATGAGTATCTCTGGGCCACCATCCA
AAGGATTCCTGAAGTCCCGGGCTCACTCCCTGCCAGCCATAAGTATGATCTGTCTGACATGCAAGCAGTT
GCCAGGTTTGTCAAGTGGCAGTACTTTGAGGGTATGTTTCCAAGGGTGTCCCTACCGCCCTGCGATG
GAGTCCATGTGCGCTCAGTGTGCATTTTCGGAGCTGGTGACTTGAAGTGGATGCTGCGCAAAACCACTT
GTTTGCCAATAAGTTTGACGTGGATGTTGACCTCTTGCCATCCAGTGTGGATGAGCATTGAGACAC
AAAGCTTTGGAGACATAAAACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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_001490.5](#)

RefSeq Size: 5536 bp

RefSeq ORF: 1287 bp

Locus ID: 2650

UniProt ID: [Q02742](#)

Cytogenetics: 9q21.13

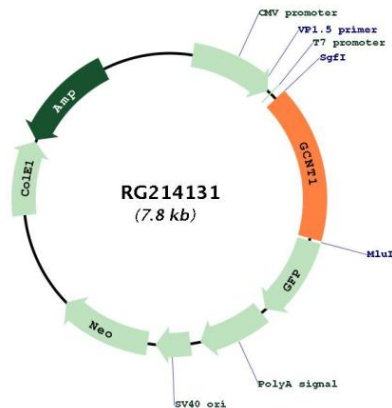
Domains: Branch

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

Gene Summary: This gene is a member of the beta-1,6-N-acetylglucosaminyltransferase gene family. It is essential to the formation of Gal beta 1-3(GlcNAc beta 1-6)GalNAc structures and the core 2 O-glycan branch. The gene coding this enzyme was originally mapped to 9q21, but was later localized to 9q13. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG214131