

Product datasheet for **RG224337**

GCNT1 (NM_001097633) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GCNT1 (NM_001097633) 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: >RG224337 representing NM_001097633
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGAGGACGTTGCTGCGAAGGAGACTTTTTCTTATCCCACCAAATACTACTTTATGGTTCTTGTTT
 TATCCCTAATCACCTTCTCCGTTTTAAGGATTCATCAAAAGCCTGAATTTGTAAGTGCAGACACTTGGAG
 GCTTGCTGGGGAGAATCCTAGTAGTGATTAATTGCACCAAAGTTTTACAGGGTATGTAATGAAATC
 CAAAAGGTAAGCTTGAGATCCTAACAGTGAAATTTAAAAAGCGCCCTCGGTGGACACCTGACGACTATA
 TAAACATGACCAGTGACTGTTCTTTTCATCAAGAGACGCAAAATATTTGTAGAACCCCTTAGTAAAGA
 AGAGGCGGAGTTTCCAATAGCATATTCTATAGTGGTTCATCACAAGATTGAAATGCTTGACAGGCTGCTG
 AGGGCCATCTATATGCCTCAGAATTTCTATTGCATTTCATGTGGACACAAAATCCGAGGATTCCTATTAG
 CTGCAGTGATGGGCATCGCTTCTGTTTTAGTAATGTCTTTGTGGCCAGCCGATTGGAGAGTGTGGTTTA
 TGCATCGTGGAGCCGGTTCAGGCTGACCTCAACTGCAATGAAGGATCTCTATGCAATGAGTGCAAACTGG
 AAGTACTTGATAAATCTTTGTGGTATGGATTTCCCATAAAACCAACCTAGAAATGTGCAAGGAGCTCA
 AGTTGTTAATGGGAGAAAACAACCTGGAACGGAGAGGATGCCATCCCATAAAGAAGAAAGGTGGAAGAA
 GCGGTATGAGGTCGTTAATGGAAGCTGACAAACACAGGGACTGTCAAAATGCTTCTCCACTCGAAACA
 CCTCTCTTTTCTGGCAGTGCCTACTTCGTGGTCAGTAGGGAGTATGTGGGTATGTACTACAGAATGAAA
 AAATCCAAAAGTTGATGGAGTGGGCACAAGACACATACAGCCCTGATGAGTATCTCTGGGCCACCATCCA
 AAGGATTCCTGAAGTCCCGGGCTCACTCCCTGCCAGCCATAAGTATGATCTGTCTGACATGCAAGCAGTT
 GCCAGGTTTGTCAAGTGGCAGTACTTTGAGGGTATGTTTCCAAGGGTGTCCCTACCGCCCTGCGATG
 GAGTCCATGTGCGCTCAGTGTGATTTTCGAGCTGGTGACTTGAAGTGGATGCTGCGCAAAACCACTT
 GTTTGCCAATAAGTTTGACGTGGATGTTGACCTTTGCCATCCAGTGTGGATGAGCATTGAGACAC
 AAAGCTTTGGAGACATAAAACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224337 representing NM_001097633
 Red=Cloning site Green=Tags(s)

MLRTLRRRLFSYPTKYFVMVLVLSLITFSVLRIHQKPEFVSVRHLELAGENPSSDINCTKVLQGDVNEI
 QKVKLEILTVKFKRPRWTPDDYINMTSDCSSFIKRRKYIVEPLSKEEAFFPIAYSIVVHHKIEMLDRLL
 RAIYMPQNFYCIHVDTKSEDSYLAAVMGIASCFSNVFVASRLESVVYASWSRVQADLNCKMKDLYAMSANW
 KYLINLTCGMDFFPIKTNLEIVRKLLKLLMGENNLETERMPHKEERWKKRYEVVNGKLTNTGTVKMLPPLET
 PLFSGSAYFVVSREYVGYVLQNEKIQKLMWAQDTYSPDEYLWATIQRIPVPGSLPASHKYDLSDMQAV
 ARFVKWQYFEGDVSKGAPYPPCDGVHVRVSVCFIAGADLNWMLRKHHLFANKFDVDVDFAIQCLDEHLRH
 KALETLKH

TRTRPLE - GFP Tag - V

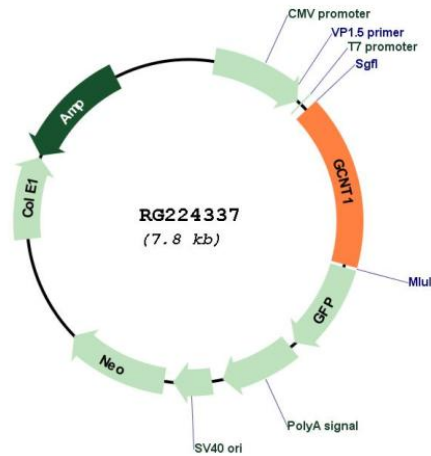
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001097633

ORF Size:	1284 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:	<ol style="list-style-type: none">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_001097633.1 , NP_001091102.1
RefSeq Size:	5488 bp
RefSeq ORF:	1287 bp
Locus ID:	2650
UniProt ID:	Q02742
Cytogenetics:	9q21.13
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]