

Product datasheet for **RG211667**

GCNT1 (NM_001097635) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCNT1 (NM_001097635) 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:	>RG211667 representing NM_001097635 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGGACGTTGCTGCGAAGGAGACTTTTTCTTATCCCACCAAATACTACTTTATGGTTCCTGTTT
TATCCCTAATCACCTTCCGTTTTAAGGATTCATCAAAAGCCTGAATTTGTAAGTGCAGACACTTGGAG
GCTTGCTGGGAGAATCCTAGTAGTGATTAATTGCACCAAAGTTTTACAGGGTGTAAATGAAATC
CAAAAGGTAAGCTTGAGATCCTAACAGTGAAATTTAAAAAGCGCCCTCGGTGGACACCTGACGACTATA
TAAACATGACCAGTGACTGTTCTTTTCATCAAGAGACGCAAAATATTTGTAGAACCCTTAGTAAAGA
AGAGGCGGAGTTTCCAATAGCATATTCTATAGTGGTTCATCACAAGATTGAAATGCTTGACAGGCTGCTG
AGGGCCATCTATATGCCTCAGAATTTCTATTGCATTCATGTGGACACAAAATCCGAGGATTCCTATTAG
CTGCAGTGATGGGCATCGCTTCTGTTTTAGTAATGTCTTTGTGGCCAGCCGATTGGAGAGTGTGGTTTA
TGCATCGTGGAGCCGGTTCAGGCTGACCTCAACTGCAATGAAGGATCTCTATGCAATGAGTGCAAACTGG
AAGTACTTGATAAATCTTTGTGGTATGGATTTCCCATAAAACCAACCTAGAAATGTGCAAGGAGCTCA
AGTTGTTAATGGGAGAAAACAACCTGGAACGGAGAGGATGCCATCCATAAAGAAGAAAGGTGGAAGAA
GCGGTATGAGGTCGTTAATGGAAAGCTGACAAACACAGGGACTGTCAAAATGCTTCTCCACTCGAAACA
CCTCTCTTTTCTGGCAGTGCCTACTTCGTGGTCAAGTGGGATGTGGGGTATGTACTACAGAATGAAA
AAATCCAAAAGTTGATGGAGTGGGCACAAGACACATACAGCCCTGATGAGTATCTCTGGGCCACCATCCA
AAGGATTCCTGAAGTCCCGGGCTCACTCCCTGCCAGCCATAAGTATGATCTGTCTGACATGCAAGCAGTT
GCCAGGTTTGTCAAGTGGCAGTACTTTGAGGGTGTGTTTCCAAGGGTGTCCCTACCGCCCTGCGATG
GAGTCCATGTGCGCTCAGTGTGCATTTTCGAGCTGGTGACTTGAAGTGGATGCTGCGCAAAACCACTT
GTTTGCCAATAAGTTTGACGTGGATGTTGACCTCTTGCCATCCAGTGTGGATGAGCATTGAGACAC
AAAGCTTTGGAGACATAAAACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211667 representing NM_001097635
 Red=Cloning site Green=Tags(s)

MLRTLRRRLFSYPTKYFMYLVLISLITFSVLRIHQKPEFVSVRHLELAGENPSSDINCTKVLQGDVNEI
 QKVKLEILTVKFKRPRWTPDDYINMTSDCSSFIKRRKYIVEPLSKEEAFFPIAYSIVVHHKIEMLDRLL
 RAIYMPQNFYCIHVDTKSEDSYLAAVMGIASCFSNVFVASRLESVVYASWSRVQADLNCMKDLYAMSANW
 KYLINLTCGMDFFIKTNLEIVRKLKLLMGENNLETERMPHKEERWKKRYEVVNGKLTNTGTVKMLPPLET
 PLFSGSAYFVVSREYVGYVLQNEKIQKLMWAQDTYSPDEYLWATIQRIPVPGSLPASHKYDLSDMQAV
 ARFVKWQYFEGDVSKGAPYPCCDGVHRSVCIFGAGDLNWMLRKHHLFANKFDVDVDFAIQCLDEHLRH
 KALETLKH

TRTRPLE - GFP Tag - V

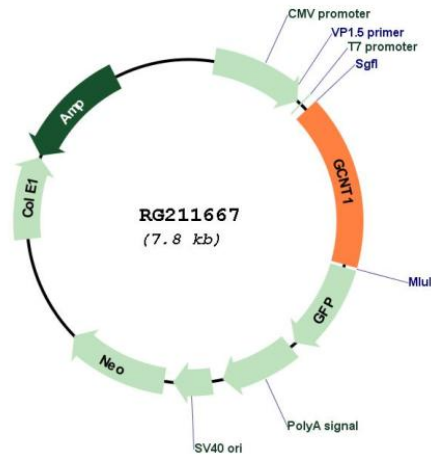
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001097635

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_001097635.1 , NP_001091104.1
RefSeq Size:	5524 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]