

Product datasheet for SC110905

GCNT1 (NM_001490) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCNT1 (NM_001490) Human Untagged Clone
Tag:	Tag Free
Symbol:	GCNT1
Synonyms:	C2GNT; C2GNT-L; C2GNT1; G6NT; NACGT2; NAGCT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110905 sequence for NM_001490 edited (data generated by NextGen Sequencing)

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ATGCTGAGGACGTTGCTGCGAAGGAGACTTTTTCTTATCCCACCAAATACTACTTTATG
GTTCTTGTATCCCTAATCACCTTCTCCGTTTTAAGGATTCATCAAAAAGCCTGAATTT
GTAAGTGTGACACTTGGAGCTTGGTGGGAGAATCCTAGTAGTGATATTAATTGCACC
AAAGTTTTACAGGGTGATGTAATGAAATCCAAAAGGTAAGCTTGGATCCTAACAGTG
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TCTTCTTTCATCAAGAGACGCAATATATTGTAGAACCCTTAGTAAAGAAGAGGCGGAG
TTTCCAATAGCATATTCTATAGTGGTTCATCACAAGATTGAAATGCTTGACAGGCTGCTG
AGGCCATCTATATGCCTCAGAATTTCTATTGCATTCATGTGGACACAAAATCCGAGGAT
TCCTATTTAGCTGCAGTGATGGGCATCGCTTCTGTTTTAGTAATGTCTTTGTGGCCAGC
CGATTGGAGAGTGTGTTTTATGCATCGTGGAGCCGGGTTCAAGGCTGACCTCAACTGCATG
AAGGATCTCTATGCAATGAGTGCAAACCTGGAAGTACTTGATAAATCTTTGTGGTATGGAT
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AACCTGGAAACGGAGAGGATGCCATCCATAAAGAAGAAAGGTGGAAGAAGCGGTATGAG
GTCGTTAATGAAAGCTGACAAACACAGGGACTGTCAAATGCTTCTCCACTCGAAACA
CCTCTCTTTCTGGCAGTGCCTACTTCGTGGTCAAGTGGGAGTATGTGGGTATGTAATA
CAGAATGAAAAATCCAAAAGTTGATGGAGTGGGCACAAGACACATACAGCCCTGATGAG
TATCTCTGGGCCACCATCCAAAGGATTCCTGAAGTCCCGGGCTCACTCCCTGCCAGCCAT
AAGTATGATCTGTCTGACATGCAAGCAGTTGCCAGGTTTGTCAAGTGGCAGTACTTTGAG
GGTGATGTTTCCAAGGGTCTCCCTACCCGCCCTGCGATGGAGTCCATGTGCGCTCAGTG
TGCATTTTCGGAGCTGGTGAAGTGGATGCTGCGCAAACACCCTGTTTGCCAAAT
AAGTTTGACGTGGATGTTGACCTCTTGGCATCCAGTGTGGATGAGCATTTGAGACAC
AAAGCTTTGGAGACATTAACACTGA

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Clone variation with respect to NM_001490.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001490 unedited</p> <pre>GCAATTTGTAATACGAACTCACTATAGGGCGGCCGCAATTCGCACGAGGGCGCGGGGGC GGAGCTTGGTGGAGCAGGAGCGGCTGGGCATCCTCCTGAGACTCCGGGTGACAGCCCA CTCCAGCGCTTTCTGCGCAGCACAGGCACCCTCGCTGTACGCCTCCCTCTCTCTTCC CGTCTCCAGCGTGGATGAGGGCGCCTGCAGATCCCGCTAGGGCACGGACCGCCTAGGC CGAGATTTCTTTAAAGCCTCGTGACGACATCATTATCGCTGGATGCCCGGACATGTAAT ACACCTGACAGCATGTGAAGTCTCAGAATGGGGCAGGATGTCACCTGGAATCAGCACTA AGTGATTCAGACTTTCCTTACTTTTAAATGGGCTGCTGACACCAGCTAATGGACATTA ACATGTCAGGAGAACTTAAATTAACGATTCAAGACAAGGGGTGGTAATCCGGCA CAGTGTGAGAACTCATCAACTAGACTGTTCAATCATTATTGCCTAGGCGTCCAACTA TGGTTTTGCACCTCAACATACCAAAGAGTGTCTTCTTCAAGATGCCGTTGCAGC TCTGATAAATGCAAACCTTCAAGGCCACGACGGAGGAAAATCATTGGTGCTT GGAGCATAGAAGACTGCCCTTCAAAAGGAAATCCCTGATTATTGTTGAAATGCTGAGG ACGTTGCTGCGAAGGAGACTNTTCTTATCCCACAAATACTACTNTATGGGNTCTTGG TTTATCCCTAATCACCTTCTCCGTTNTAAGGATTCATCANAAGCCTGAAATTGTAAGTG TCAGACACTTGGAGCTTGTGGGAGAAATCTAGTAGTGATTAATTGCACCAAAGTTT TACAGGTGATGTAATGAAATCAAAGGGTAAGCTGGAGATCCCTACAGTGAATTA AGCGCCCT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001490 unedited</p> <pre>GGCAGCTTCTAGNGACGAGTTT TTTTTTTTTTTTTTTTTTTTTAAATAAACCCCATTTTAAGCCCCGGGGAGGACATACGG GGACCCCTACCCAGGCCAGTTTTAGAGCAAAATATAAATTTTTTACAAAATCTTTTAT GGACAATCAAATTTTTTTTTTCAACAAATATAATACCAGATTAATGGGTTCTTGATTAT TGGGGGGGGGAAGTTTATTCATCCCAAAAAAGGGGCACATTTAAATTTAAAAAAGT TGGGGGACAGGGAACATTTTACATTTGGGTAAGCCCCGGAGCACTTTGAACAGGGGGAT TTTATGGATGGGCCTTTTCCAAGCCACCCGGGGCCCTTTTCCAAAAGGCCTTGGTAC CGGTTTGGGCCTAAAGGGTACCTTTACTCCCCCACTATTAACCTAAAGGAACATTTAA GGCTATCACCTTTCTAGCTAACGGGGCTCGGAAAAACCAGGCAGCTTCTCTGACAAAA AATCTACTAAAGCCCGCCCAAGAGGACTTTATACCATTTTCCCGACGCTGACAGGG AAGGGAAACAGATAGGGGGCCGTTTGGGGACCCTTCTTCTGGCCATAAAATGGCCCG AAGGGCCAGGTTTTTAAGGGCTCCAAAGCTTTGGGGCTAAAAGGCTCATCCAAACACTGG ATGGCNAAGAGGGCAACATCCACGTCAAACCTATTGCAAAACAGGGGTGTTGGGGCACAT TCAGTTAAAGTCCCAGCTCCGAAAATGCCACTGAGCGCCCATGAATCTCCTCGCAGGGGG GGTAGGGAGCCCNCTGGAAACATCCCCTAAAAGACTGGCCCTTAAAACCGGGCACTGG TTTATGGAAAACGATATACTTAGGCGTGAAGGGAGGAGCCGGAACCTAGGAATCTTGTA GGGNCCAAATACTAAAGGGCTGGTTGGGG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001490
Insert Size:	2390 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).
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_001490.3](#), [NP_001481.2](#)

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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1, and uses the P2 promoter.