

## Product datasheet for **SC316216**

### GCNT1 (NM\_001097636) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GCNT1 (NM_001097636) Human Untagged Clone
Tag:	Tag Free
Symbol:	GCNT1
Synonyms:	C2GNT; C2GNT-L; C2GNT1; G6NT; NACGT2; NAGCT2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001097636, the custom clone sequence may differ by one or more nucleotides ATGCTGAGGACGTTGCTGCGAAGGAGACTTTTTCTTATCCCACCAAATACTACTTTATG GTTCTTGTATCCCTAATCACCTTCTCCGTTTTAAGGATTCATCAAAGCCTGAATTT GTAAGTGTGACACTTGGAGCTTGGGGGAGAATCCTAGTAGTGATATTAATTGCACC AAAGTTTTACAGGGTGATGTAATGAAATCCAAAAGGTAAGCTTGAGATCCTAACAGTG AAATTTAAAAGCGCCCTCGGTGGACACCTGACACTATATAACATGACCAGTGACTGT TCTTCTTTCATCAAGAGACGCAAATATATTGTAGAACCCTTAGTAAAGAAGAGGCGGAG TTTCCAATAGCATATTCTATAGTGGTTCATCACAAGATTGAAATGCTTGACAGGCTGCTG AGGGCCATCTATATGCCTCAGAATTTCTATTGCATTCATGTGGACACAAAATCCGAGGAT TCCTATTTAGCTGCAGTGATGGGCATCGCTTCCTGTTTTAGTAATGTCTTTGTGGCCAGC CGATTGGAGAGTGTGGTTTATGCATCGTGGAGCCGGGTTCAAGGCTGACCTCAACTGCATG AAGGATCTCTATGCAATGAGTGCAAACTGGAAGTACTTGATAAATCTTTGTGGTATGGAT TTTCCATTAAAACCACTAGAAATGTCAGGAAGCTCAAGTTGTTAATGGGAGAAAAC AACCTGGAACCGGAGAGGATGCCATCCCATAAAGAAGAAAGGTGGAAGAAGCGGTATGAG GTCGTTAATGAAAGCTGACAAACACAGGGACTGTCAAATGCTTCCTCCACTCGAAACA CCTCTCTTTCTGGCAGTGCCTACTTCGTGGTCAGTAGGGAGTATGTGGGGTATGTACTA CAGAATGAAAAATCCAAAAGTTGATGGAGTGGGCACAAGACACATACAGCCCTGATGAG TATCTCTGGGCCACCATCCAAAGGATTCCTGAAGTCCCGGGCTCACTCCCTGCCAGCCAT AAGTATGATCTGTCTGACATGCAAGCAGTTGCCAGGTTTGTCAAGTGGCAGTACTTTGAG GGTATGTTTTCAAGGGTCTCCCTACCCGCCCTGCGATGGAGTCCATGTGCGCTCAGTG TGCATTTTCGGAGCTGGTGAAGTGAAGTGGATGCTGCGCAAACCACTTGTTTGCCAAAT AAGTTTGACGTGGATGTTGACCTCTTTGCCATCCAGTGTGGATGAGCATTTGAGACAC AAAGCTTTGGAGACATTAACAC
Restriction Sites:	Please inquire
ACCN:	NM_001097636



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001097636.1</a></u> , <u><a href="#">NP_001091105.1</a></u>
<b>RefSeq Size:</b>	5617 bp
<b>RefSeq ORF:</b>	1287 bp
<b>Locus ID:</b>	2650
<b>UniProt ID:</b>	<u><a href="#">Q02742</a></u>
<b>Cytogenetics:</b>	9q21.13
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, O-Glycan biosynthesis
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR compared to variant 1, and uses the P4 promoter.</p>