

Product datasheet for SC316213

GCNT1 (NM_001097633) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCNT1 (NM_001097633) Human Untagged Clone
Tag:	Tag Free
Symbol:	GCNT1
Synonyms:	C2GNT; C2GNT-L; C2GNT1; G6NT; NACGT2; NAGCT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316213 representing NM_001097633. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCTGAGGACGTTGCTGCGAAGGAGACTTTTTCTTATCCCACCAAATACTACTTTATGGTTCTTGTT
TTATCCCTAATCACCTTCTCCGTTTTAAGGATTCATCAAAGCCTGAATTTGTAAGTGTCAGACACTTG
GAGCTTGCTGGGAGAATCCTAGTAGTGATTAATTGCACCAAAGTTTTACAGGGTGATGTAATGAA
ATCCAAAAGGTAAGCTTGAGATCCTAACAGTGAAATTTAAAAGCGCCCTCGGTGGACACCTGACGAC
TATATAAATGACAGTACTGTTCTTCTTTCATCAAGAGACGCAAATATATTGTAGAACCCTTAGT
AAAGAAGAGGCGGAGTTCCAATAGCATATTCTATAGTGGTTCATCACAAGATTGAAATGCTTGACAGG
CTGCTGAGGGCCATCTATATGCCTCAGAATTTCTATTGCATTCATGTGGACACAAAATCCGAGGATTC
TATTTAGCTGCAGTGATGGGCATCGCTTCTGTTTTAGTAATGTCTTTGTGGCCAGCCGATTGGAGAGT
GTGGTTTATGCATCGTGGAGCCGGGTTCAAGGCTGACCTCAACTGCATGAAGGATCTCTATGCAATGAGT
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AGGTGGAAGAAGCGGTATGAGGTCGTTAATGAAAAGCTGACAAACACAGGGACTGCAAAATGCTTCTCT
CCACTCGAAACACCTCTCTTTCTGGCAGTGCCTACTTCGTGGTCAGTAGGGAGTATGTGGGATGTA
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TGGGCCACCATCCAAAGGATTCCTGAAGTCCCGGGCTCACTCCCTGCCAGCCATAAGTATGATCTGTCT
GACATGCAAGCAGTTGCCAGTTTGTCAAGTGGCAGTACTTTGAGGGTGATGTTTCCAAGGTGCTCCC
TACCCGCCCTGCGATGGAGTCCATGTGCCTCAGTGTGCATTTTTCGGAGCTGGTACTTGAAGTGGATG
CTGCGCAAACACCACTTGTGTTGCCAATAAGTTTGACGTGGATGTTGACCTCTTGGCCATCCAGTGTG
GATGAGCATTGAGACACAAAGCTTTGGAGACATTAACACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001097633
Insert Size:	1287 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).
OTI Annotation:	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
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
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
MW:	49.8 kDa
Gene Summary:	<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 (3) differs in the 5' UTR compared to variant 1, and uses the P2 promoter.</p>