

# Recombinant Human GCNT1

**Cat. No.** GCNT1-27452TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human GCNT1 with N-terminal proprietary tag. Predicted MW 73.15kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	428 amino acids
<b>Description</b>	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.
<b>Molecular Weight</b>	73.150kDa inclusive of tags
<b>Tissue specificity</b>	Highly expressed in activated T-lymphocytes and myeloid cells.
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	MLRLLRRRLFSYPTKYYFMVLVLSLITFSVLRHQKPEF VSVRHLELAGENPSSDIN CTKVLQGDVNEIQVKLEILTV KFKKRPRWTPDDYINMTSDCSSFIKRRKYIVEPLSK EEAE FPIAYSIVVHHKIEMLDRLLRAIYMPQNFYCIHVDTKSED SYLAAVMGIASCFS NVFVASRLESVVYASWSRVQADLNCM KDLYAMSANWKYLINLCGMDFPKTNLEIV RKLKLLMGEN NLETERMPHKEERWKKRYEVVNGKLTNTGTVKMLPPLET PLFSG SAYFVVSREYVGYVLQNEKIQKLMWAQDTYSPDE YLWATIQRIVEVPGSLPASHK YDLSDMQAVARFVKWQYFE GDVSKGAPYPPCDGVHVRVCIFGAGDLNWMLRKH HLFAN KFDVDVDLFAIQCLDEHLRHKALETLKH
<b>Sequence Similarities</b>	Belongs to the glycosyltransferase 14 family.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GCNT1 glucosaminyl (N-acetyl) transferase 1, core 2 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">GCNT1</a>
<b>Synonyms</b>	GCNT1; glucosaminyl (N-acetyl) transferase 1, core 2; glucosaminyl (N acetyl) transferase 1, core 2 (beta 1,6 N acetylglucosaminyltransferase) , NACGT2; beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase; beta 1; 3 galact
<b>Gene ID</b>	<a href="#">2650</a>
<b>mRNA Refseq</b>	<a href="#">NM_001097633</a>
<b>Protein Refseq</b>	<a href="#">NP_001091102</a>

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<b>MIM</b>	600391
<b>Uniprot ID</b>	Q02742
<b>Chromosome Location</b>	9q13
<b>Pathway</b>	Metabolic pathways, organism-specific biosystem; Mucin type O-Glycan biosynthesis, organism-specific biosystem; Mucin type O-Glycan biosynthesis, conserved biosystem; O-glycan biosynthesis, mucin type core, organism-specific biosystem; O-glycan biosynthesis, mucin type core, conserved biosystem;
<b>Function</b>	beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase activity; transferase activity, transferring glycosyl groups;

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