

## Active Recombinant Human GCNT2 Protein (AA 26-400), N-6xHis/GFP tagged

Cat. No. GCNT2-10H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GCNT2 Protein (AA 26-400) with N-6xHis/GFP tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	AA 26-400
<b>Description</b>	This gene encodes the enzyme responsible for formation of the blood group I antigen. The i and I antigens are distinguished by linear and branched poly-N-acetyllactosaminoglycans, respectively. The encoded protein is the I-branching enzyme, a beta-1,6-N-acetylglucosaminyltransferase responsible for the conversion of fetal i antigen to adult I antigen in erythrocytes during embryonic development. Mutations in this gene have been associated with adult i blood group phenotype. Alternatively spliced transcript variants encoding different isoforms have been described.
<b>Bio-activity</b>	≥ 0.02 μmol/min/mg
<b>Molecular Mass</b>	~75 kDa
<b>AA Sequence</b>	NFGGDPSFQRLNISDPLRLTQVCTSFINGKTRFLWKNKLMIEHKSSCKEYLTQSHYIT APLSKEEADFPPLAYIMVIHHHFDTFARLFRAIYMPQNIYCVHVDEKATTEFKDAVEQLL SCFPNAFLASKMEPVVYGGISRLQADLNCIRDLSAFEVSWKYVINTCGQDFPLKTNK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EIVQYLKGFKGNITPGVLPPAHAIGRTKYVHQEHLGKELSYVIRTTALKPPPPHNLTI  
 YFGSAYVALSREFANFVLHDPRAVDLLQWSKDTFSPDEHFWVTLNRIPIGVPGSMPN  
 ASWTGNLRAIKWSDMEDRHGGCHGHYVHGICIIYGNGLKWLNVNSPSLFANKFELN  
 TYPLTVECLELRHRERTLNQSETAIQPSWYF

**Purity** >95%, by SDS-PAGE under reducing conditions and visualized by Coomassie Blue stain.

**Stability** 6 months if stored at -80 centigrade. Avoid repeated freeze thaws.

**Concentration** 1 mg/mL

**Storage Buffer** Supplied as a 0.2 µm filtered solution in 20mM HEPES pH 7.0 and 100mM NaCl buffer, with 10% Glycerol.

**Preservative** 0.05 % NaN<sub>3</sub>

**Shipping** This product is shipped as 0.2µm filtered product on dry ice.

## GENE INFORMATION

**Gene Name** GCNT2 glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group) [ Homo sapiens (human) ]

**Official Symbol** GCNT2

**Synonyms** GCNT2; glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group); cataract, congenital , CCAT, GCNT5, glucosaminyl (N acetyl) transferase 2, I branching enzyme , glucosaminyl (N acetyl) transferase 2, I branching enzyme (Ii blood group) , glucosaminyl (N acetyl) transferase 5 , II, NACGT1; N-acetyllactosaminide beta-1,6-N-acetylglucosaminyl-transferase; bA360O19.2;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

bA421M1.1; IGNT; li blood group; NAGCT1; ULG3; unassigned linkage group 3; I beta-1,6-N-acetylglucosaminyltransferase; beta-1,6-N-acetylglucosaminyltransferase 2; II; CCAT; GCNT5; GCNT2C; NACGT1; MGC163396;

**Gene ID** 2651

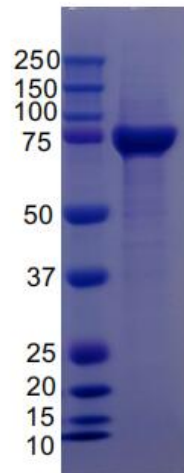
**mRNA Refseq** NM\_001491

**Protein Refseq** NP\_001482

**MIM** 600429

**UniProt ID** Q06430

**SDS-PAGE**



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA