

## Recombinant Human GCNT2 Protein, GST-tagged

Cat. No. GCNT2-4805H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Human GCNT2 full-length ORF ( NP\_663630.2, 1 a.a. - 402 a.a.) recombinant protein with GST-tag at N-terminal.

**Species** Human

**Source** Wheat Germ

**Description** 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. [provided by RefSeq]

**Molecular Mass** 72.9 kDa

**AA Sequence**

```
MNFWRYCFFAFTLLSVVIFVRFYSSQLSPPKSYEKLNSSERYFRKTACNHALEKMP
VFLWENILPSPLRSVPCKDYLTQNHYITSPLSEEEAFLAYVMVIHKDFDTERLFR
AIYMPQNVYCVHVDEKAPAEYKESVRQLLSCFQNAFIASKTESVVYAGISRLQADLN
CLKDLVASEVPWKYVINTCGQDFPLKTNREIVQHLKGFKGKNITPGVLPPDHAIKRTK
YVHQEHTDKGGFFVKNTNILKTSPPHQLTIYFGTAYVALTRDFVDFVLRDQRAIDLLQ
WSKDTYSPDEHFVVTLNRVSGVPGSMPNASWTGNLRAIKWSDMEDRHGGCHGH
YVHGICIYGNLWLVNSPSLFANKFELNTYPLTVECLELRHRERTLNQSETAIQPS
```

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	WYF
<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	GCNT2 glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group) [ Homo sapiens ]
<b>Official Symbol</b>	GCNT2
<b>Synonyms</b>	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-acetylglucosaminide beta-1,6-N-acetylglucosaminyl-transferase; bA360O19.2; bA421M1.1; IGNT; II 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;
<b>Gene ID</b>	2651

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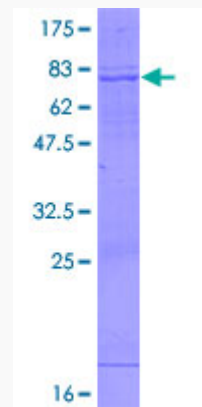
mRNA Refseq NM\_001491

Protein Refseq NP\_001482

MIM 600429

UniProt ID Q06430

**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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