

Product datasheet for **TP315538**

GCNT2 (NM_145655) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group) (GCNT2), transcript variant 3, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC215538 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MNFWRYCFFAFTLLSVIFVRFYSSQLSPPKSYEKLNSSSERYFRKTACNHAEKMPVFLWENILPSPLR
SVPCKDYLTQNHYITSPLEEEAAFLAYVMVIHKDFDTFERLFRAIYMPQNVYCVHVDEKAPAEYKESV
RQLLSCFQNAFIASKTESVYAGISRLQADLNCLKDLVASEVPWKYVINTCGQDFPLKTNREIVQHLKGF
KGKNITPGVLPDPDHAIKRTKYVHQEHTDKGGFFVKNTNILKTSPPHQLTIYFGTAYVALTREFVDFVLRD
QRAIDLLQWSKDTYSPDEHFWVTLNRVSGVPGSMPNASWTGNLRAIKWSDMEDRHGGCHGHVYHGICIYG
NGDLKWLVNSPSLFANKFELNTYPLTVECLELRHRERTLNQSETAIQPSWYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	46.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_663630</u>



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Locus ID:	2651
UniProt ID:	Q06430 , Q8N0V5 , Q8NFS9
RefSeq Size:	4219
Cytogenetics:	6p24.3-p24.2
RefSeq ORF:	1206
Synonyms:	bA360O19.2; bA421M1.1; CCAT; CTRCT13; GCNT2C; GCNT5; IGNT; II; NACGT1; NAGCT1; ULG3
Summary:	<p>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, Jul 2008]</p>
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways