

Product Information

MemDX™ Membrane Protein Human GCNT2 (Glucosaminyl (N-acetyl) transferase 2 (I blood group)) Full Length

Cat. No.: **MPC3621K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human GCNT2 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

GCNT2

Protein Length

Full length

Protein Class

Transferase

TMD

1

Sequence

MMGSWKHCLFSASLISALIFVFVYNTELWENKRFLRAALSNASLLAEACH
QIFEGKVFYPTENALKTTLDEATCYEYMVRSHYVTETLSEEEAGFPLAYT
VTIHKDFGTFERLFRAIYMPQNVYCVHLDQKATDAFKGAVKQLLSCFPNA
FLASKKESVVYGGISRLQADLNCLEDLVASEVPWKYVINTCGQDFPLKTN
REIVQYLKGFKGKNITPGVLPDHAHVGR TKYVHQELLNHKNSYVIKTTKL
KTPPPHDMVIYFGTAYVALTRDFANFVLQDQLALDLLWSKDTYSPDEHF
WVTLNRIPGVPGSMPNASWTGNLRAIKWSDMEDRHGGCHGHYVHGICIYG
NGDLKWLVNPSL FANKFELNTYPLTVECLELRHRERTLNQSETAIQPSW
YF

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

GCNT2

Full Name

Glucosaminyl (N-acetyl) transferase 2 (I blood group)

Introduction

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.

Alternative Names

GCNT2; II; CCAT; IGNT; ULG3; GCNT5; GCNT2C; NACGT1; NAGCT1; CTRCT13; bA421M1.1; bA360O19.2; N-acetyllactosaminide beta-1,6-N-acetylglucosaminyl-transferase; I beta-1,6-N-acetylglucosaminyltransferase; Ii blood group; beta-1,6-N-acetylglucosaminyltransferase 2; glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group); Glucosaminyl (N-acetyl) transferase 2 (I blood group)

Gene ID

[2651](#)

UniProt ID

[Q8N0V5](#)