

Product Information

MemDX™ Membrane Protein Human MFNG (MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase) Full Length

Cat. No.: **MPC4463K**

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

This product is a made-to-order Human MFNG 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

MFNG

Protein Length

Full length

Protein Class

Transferase

TMD

1

Sequence

MQCRLPRGLAGALLTLLCMGLLCLRYHLNLSQQRVQGTPELSQPNGPPK
LQLHDVFIAVKTTRAFHRLRLELLLDTWVSRTREQTFVFTDSPDKGLQER
LGSHLVVNCSAEHSHPALSCKMAAEFDTFLASGLRWFCVDDDDNYVNP
ALLQLLRAFPLARDVYVGRPSLNRPIHASEPQPHNRTRLVQFWFATGGAG
FCINRKLALKMAPWASGSRFMDTSALIRLPDDCTMGYIIECKLGGRLQPS
PLFHSHLETLQLLRTAQLPEQVTLSTYGVFEGKLNVIKLGQPFSPPEEDPSR
FRSLHCLLYPDTPWCPQLGAR

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**

MFNG

Full Name

MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase

Introduction

This gene is a member of the glycosyltransferase 31 gene family. Members of this gene family, which also includes the LFNG (GeneID: 3955) and RFNG (GeneID: 5986) genes, encode evolutionarily conserved glycosyltransferases that act in the Notch signaling pathway to define boundaries during embryonic development. While their genomic structure is distinct from other glycosyltransferases, these proteins have a fucose-specific beta-1,3-N-acetylglucosaminyltransferase activity that leads to elongation of O-linked fucose residues on Notch, which alters Notch signaling. The protein encoded by this gene may control Notch signaling in claudin-low breast cancer.

Alternative Names

MFNG; beta-1,3-N-acetylglucosaminyltransferase manic fringe; O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase; MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase

Gene ID

[4242](#)

UniProt ID

[O00587](#)