

# Product Information

## MemDX™ Membrane Protein Human ALG5 (ALG5 dolichyl-phosphate beta-glucosyltransferase) Full Length

Cat. No.: **MPC3533K**

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

This product is a made-to-order Human ALG5 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

ALG5

#### Protein Length

Full length

#### Protein Class

Transferase

#### TMD

1

#### Sequence

MAPLLLQLAVLGAALAAALVLISIVAF TTATKMPALHRHEEEKFFLNAK  
GQKETLPSIWDSPTKQLSVVPSYNEEKRLPVMMDEALSYLEKRQKRDPA  
FTYEVIVVDDGSKDQTSKVAFKYCQKYGSDKVRVITLVKNRGKGGAIRMG  
IFSSRGEKILMADADGATKFPDVEKLEKGLNDLQPWPNQMAIACGSRAHL  
EKESIAQRSYFRTLLMYGFHFLVWFLCVKGIRD TQCGFKLFTREAASRTF  
SSLHVERWAFDVELLYIAQFFKIPAEIAVNWTEIEGSKLVPFWSWLQMG  
KDLLFIRLRYLTGAWRLEQTRKMN

### 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**

ALG5

**Full Name**

ALG5 dolichyl-phosphate beta-glucosyltransferase

**Introduction**

This gene encodes a member of the glycosyltransferase 2 family. The encoded protein participates in glucosylation of the oligomannose core in N-linked glycosylation of proteins. The addition of glucose residues to the oligomannose core is necessary to ensure substrate recognition, and therefore, effectual transfer of the oligomannose core to the nascent glycoproteins. Multiple transcript variants encoding different isoforms have been found for this gene.

**Alternative Names**

ALG5; bA421P11.2; dolichyl-phosphate beta-glucosyltransferase; Alg5, *S. cerevisiae*, homolog of; asparagine-linked glycosylation 5 homolog (*S. cerevisiae*, dolichyl-phosphate beta-glucosyltransferase); asparagine-linked glycosylation 5 homolog (yeast, dolichyl-phosphate beta-glucosyltransferase); asparagine-linked glycosylation 5, dolichyl-phosphate beta-glucosyltransferase homolog; asparagine-linked glycosylation protein 5 homolog; dolP-glucosyltransferase; dolichyl phosphate glucosyltransferase; ALG5 dolichyl-phosphate beta-glucosyltransferase

**Gene ID**

[29880](#)

**UniProt ID**

[Q9Y673](#)