

# Product Information

## MemDX™ Membrane Protein Human LCTL (Lactase like) for Antibody Discovery

Cat. No.: **MP0318J**

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

This product is a 64.9 kDa Human LCTL membrane protein expressed in HEK293T. 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

LCTL

#### Protein Length

Full-length

#### Protein Class

Transmembrane

#### Molecular Weight

64.9 kDa

#### TMD

1

#### Sequence

MKPVWVATLLWMLLVPRLGAAKGSPPEEASFYYGTFPLGFSWGVGSSAYQTEGAWDQDGKGPSIWDVFT  
HSGKGKVLGNETADVACDGYYKVQEDIILLRELHVNHYRFSLSWPRLLPTGIRAEQVNKGIEFYSDLID  
ALLSSNITPIVTLHHWDLPQLLQVKYGGWQNVS MANYFRDYANLCFEAFGDRVKHWITFSDPRAMAEGY  
ETGHHAPGLKLRGTGLYKAAHHIIKAHAKAWHSYNTTWRSKQQGLVGISLNCDWGEPVDISNPKDLEAAE  
RYLQFCGLWFANPIYAGDYPQVMKDYIGRKSAEQGLEMSRLPVFSLQEKSYIKGTSDFLGLGHFTTRYIT  
ERNYPSRQGQPSYQNDRDLIELVDPNWPDLGSKWLYSVPWGFRRLLNFAQTQYGDPIYVMENGASQKFHC  
TQLCDEWRIQYLKGYINEMLKAIDGANIKGYTSWSLLDKFEWEKGYSDRYGFYYVEFNDRNKPRYPKAS  
VQYYKKIIIANGFPNPREVESWYLUKAETCSINNQMLAAEPLLSHMQMVTEIVVPTVCSLCVLITAVLLM  
LLLRRQS

### Product Description

#### Expression Systems

HEK293T

#### Tag

C-Myc/DDK

**Form**

Liquid

**Purification**

Anti-DDK affinity column followed by conventional chromatography steps

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer**

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

**Storage**

Store at +4°C for up to one week or several months at -80°C

**Target****Target Protein**

LCTL

**Full Name**

Lactase like

**Introduction**

This gene encodes a member of family 1 glycosidases. Glycosidases are enzymes that hydrolyze glycosidic bonds and are classified into families based on primary amino acid sequence. Most members of family 1 have two conserved glutamic acid residues, which are required for enzymatic activity. The mouse ortholog of this protein has been characterized and has a domain structure of an N-terminal signal peptide, glycosidase domain, transmembrane domain, and a short cytoplasmic tail. It lacks one of the conserved glutamic acid residues important for catalysis, and its function remains to be determined.

**Alternative Names**

KLG; KLPH; KL lactase phlorizin hydrolase; klotho gamma; klotho/lactase-phlorizin hydrolase-related protein

**Gene ID**

[197021](#)

**UniProt ID**

[Q6UWM7](#)