

# Product Information

## MemDX™ Membrane Protein Human KCNE3 (Potassium voltage-gated channel subfamily E regulatory subunit 3) Full Length

Cat. No.: **MPC0361K**

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

This product is a 11.7 kDa Human KCNE3 membrane protein expressed in *E.coli*. 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

KCNE3

#### Protein Length

Full length

#### Protein Class

Transporter; Ion channel

#### Molecular Weight

11.7 kDa

#### TMD

1

#### Sequence

METTNGTETWYESLHAVLKALNATLHSNLLCRPGPGLGPDNQTEERRASL  
PGRDDNSYMYILFVMFLFAVTVGSLILGYTRSRKVDKRSDPYHVYIKNRV  
SMI

### Product Description

#### Expression Systems

*E.coli*

#### Tag

Based on specific requirements

#### Protein Format

Detergent or based on specific requirements

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

KCNE3

**Full Name**

Potassium voltage-gated channel subfamily E regulatory subunit 3

**Introduction**

Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, Isk-related subfamily. This member is a type I membrane protein, and a beta subunit that assembles with a potassium channel alpha-subunit to modulate the gating kinetics and enhance stability of the multimeric complex. This gene is prominently expressed in the kidney. A missense mutation in this gene is associated with hypokalemic periodic paralysis.

**Alternative Names**

HYPP; HOKPP; MiRP2; BRGDA6; potassium voltage-gated channel subfamily E member 3; cardiac voltage-gated potassium channel accessory subunit; minK-related peptide 2; minimum potassium ion channel-related peptide 2; potassium channel subunit beta MiRP2; potassium channel, voltage gated subfamily E regulatory beta subunit 3; potassium voltage-gated channel, Isk-related family, member 3; voltage-gated K<sup>+</sup> channel subunit MIRP2; KCNE3; Potassium voltage-gated channel subfamily E regulatory subunit 3

**Gene ID**

[10008](#)

**UniProt ID**

[Q9Y6H6](#)