

# Product Information

## MemDX™ Membrane Protein Human KCNE4 (Potassium voltage-gated channel subfamily E regulatory subunit 4) for Antibody Discovery

Cat. No.: **MP0580X**

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

This product is a 44.44 kDa Human KCNE4 membrane protein expressed in *in vitro* wheat germ expression system. 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

KCNE4

#### Protein Length

Full-length

#### Molecular Weight

44.44 kDa

#### Sequence

MLKMEPLNSTHPGTAASSSPLESRAAGGGSGNGNEYFYILVMSFYGIFLIGIMLGVMKSKRREKKSSLLLLLYKDEERLWGEAMKPI

### Product Description

#### Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

#### Expression Systems

*in vitro* wheat germ expression system

#### Tag

GST-tag at N-terminal

#### Form

Liquid

#### Purification

Glutathione Sepharose 4 Fast Flow

#### Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

### Storage

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

### Target

#### Target Protein

KCNE4

#### Full Name

Potassium voltage-gated channel subfamily E regulatory subunit 4

#### 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 embryo and in adult uterus

#### Alternative Names

MIRP3

#### Gene ID

[23704](#)

#### UniProt ID

[Q8WWG9](#)