

# Product Information

## **MemDX™ Membrane Protein Human KCNN4 (Potassium calcium-activated channel subfamily N member 4) Full Length**

Cat. No.: **MPC2360K**

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

This product is a made-to-order Human KCNN4 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

KCNN4

#### Protein Length

Full length

#### Protein Class

Transporter; Ion channel

#### TMD

6

#### Sequence

MGGDLVLGLGALRRRKRLLEQEKSLAGWALVLAGTGIGLMVLHAEMLWFG  
GCSWALYFLVKCTISISTFLLLCLIVAFHAKEVQLFMTDNGLRDWRVAL  
TGRQAAQIVLELVVCGLHPAPVRGPPCVQDLGAPLTSPQPWPGFLGQGEA  
LLSLAMLLRLYLVPRAVLLRSGVLLNASYRSIGALNQVRFRHWFVAKLYM  
NTHPGRLLLGLTLGLWLTAWVLSVAERQAVNATGHLSDTLWLIPITFLT  
IGYGDVVPGTMWGKIVCLCTGVMGVCCTALLVAVVARKLEFNKAEKHVHN  
FMMDIQYTKEMKESAARVLQEAWMFYKHTRRKESHAARRHQRKLLAANA  
FRQVRLKHKRLREQVNSMVDISKMHMILYDLQQNLSSSHRALEKQIDTLA  
GKLDALTELLSTALGPRQLPEPSQQSK

### Product Description

#### Expression Systems

HEK293

#### Tag

GFP tag at the C-terminus

#### 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**

KCNN4

**Full Name**

Potassium calcium-activated channel subfamily N member 4

**Introduction**

The protein encoded by this gene is part of a potentially heterotetrameric voltage-independent potassium channel that is activated by intracellular calcium. Activation is followed by membrane hyperpolarization, which promotes calcium influx. The encoded protein may be part of the predominant calcium-activated potassium channel in T-lymphocytes. This gene is similar to other KCNN family potassium channel genes, but it differs enough to possibly be considered as part of a new subfamily.

**Alternative Names**

KCNN4; IK; IK1; SK4; DHS2; KCA4; hSK4; IKCA1; hKCa4; KCa3.1; hIKCa1; intermediate conductance calcium-activated potassium channel protein 4; SKCa 4; SKCa4; intermediate-conductance Ca<sup>2+</sup>-activated K<sup>+</sup> channel, KCa3.1; potassium channel, calcium activated intermediate/small conductance subfamily N alpha, member 4; potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4; putative Gardos channel; putative erythrocyte intermediate conductance calcium-activated potassium Gardos channel; small conductance calcium-activated potassium channel 4; Potassium calcium-activated channel subfamily N member 4

**Gene ID**

[3783](#)

**UniProt ID**

[O15554](#)