

## Product Information

### MemDX™ Membrane Protein Human KCNN2 (Potassium calcium-activated channel subfamily N member 2) Full Length

Cat. No.: **MPC1046K**

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

This product is a 63.7 kDa Human KCNN2 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

KCNN2

##### Protein Length

Full length

##### Protein Class

Transporter; Ion channel

##### Molecular Weight

63.7 kDa

##### TMD

6

##### Sequence

MSSCRYNGGVMRPLSNLSASRRNLHEMDSEAQPLQPPASVGGGGGASSPS  
AAAAAAAAAVSSSAPEIVVSKPEHNNNSNNLALYGTGGGGSTGGGGGGGSG  
HGSSSGTKSSKKNNQNIGYKLGHRRALFEKRKRRLSDYALIFGMFGIVVMV  
IETELSWGAYDKASLYSLALKCLISLSTIILLGLIIVYHAREIQLFMVDN  
GADDWRIAMTYERIFFICLEILVCAIHPIPGNYTFTWTARLAFLSYAPSTT  
TADVDIILSIPMFLRLYLIARVMLLHSKLFTDASSRSIGALNキンFNTRF  
VMKTLMTICPGTVLLVFSISLWIIAATVRACERYHDQQDVTSNFLGAMW  
LISITFLSIGYGDMPNTYCGKGVCLLTGIMGAGCTALVAVVARKLELT  
KAEKHVHNFMMMDTQLTKRVKNAANVLRETWLIYKNTKLVKKIDHAKVRK  
HQRKFLQAIHQLRSVKMEQRKLNDQANTLVDLAKTQNIMYDMISDLNERS  
EDFEKRIVTLETKLETLIGSIHALPGLISQTIRQQQRDFIEAQMESYDKH  
VTYNAERSRSSRRLRSSTAPPTSSESS

#### Product Description

##### Expression Systems

HEK293

**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**

KCNN2

**Full Name**

Potassium calcium-activated channel subfamily N member 2

**Introduction**

Action potentials in vertebrate neurons are followed by an afterhyperpolarization (AHP) that may persist for several seconds and may have profound consequences for the firing pattern of the neuron. Each component of the AHP is kinetically distinct and is mediated by different calcium-activated potassium channels. The protein encoded by this gene is activated before membrane hyperpolarization and is thought to regulate neuronal excitability by contributing to the slow component of synaptic AHP. This gene is a member of the KCNN family of potassium channel genes. The encoded protein is an integral membrane protein that forms a voltage-independent calcium-activated channel with three other calmodulin-binding subunits. Alternate splicing of this gene results in multiple transcript variants.

**Alternative Names**

KCNN2; SK2; hSK2; SKCA2; KCa2.2; SKCa 2; small conductance calcium-activated potassium channel protein 2; apamin-sensitive small-conductance Ca<sup>2+</sup>-activated potassium channel; potassium channel, calcium activated intermediate/small conductance subfamily N alpha, member 2; potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2; small conductance calcium-activated potassium channel 2; Potassium calcium-activated channel subfamily N member 2

**Gene ID**

[3781](#)

**UniProt ID**

[Q9H2S1](#)