

Product Information

MemDX™ Membrane Protein Mouse Kcna3 (Potassium voltage-gated channel, shaker-related subfamily, member 3)

Cat. No.: **MP0022F**

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

The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Mouse

Target Protein

Kcna3

Protein Length

Full Length

Protein Class

Channel

Molecular Weight

58 kDa

TMD

6

Sequence

MTVVPGDHLLPEAAAGGGGGDPPQGGCGSGGGGGGCDRYEPLPPALPAAGEQDCCGERVV
INISGLRFETQLKTLQCFPETLLGDPKRRMRYFDPLRNEYFFDRNRPSFDAILYYYQSGG
RIRRPVNVPIIDIFSEEIRFYQLGEEAMEKFREDEGFLREEERPLPRRDFQRQVWLLFEYP
ESSGPARGIAIVSVLVILISIVIFCLETLPEFRDEKDYPASPSQDVFEAANNSTSGAPSG
ASSFSDPFFVETLCIIWFSFELLVRFFACPSKATFSRNIMNLIDIVAIIPYFITLGTEL
AERQGNQGQAMSLAILRVIRLVRFIRFKLSRHSKGLQILGQTLKASMRELGLLIFFLFI
GVILFSSAVYFAEADDPSSGFNSIPDAFWWWAVVTMTTVGYGDMHPVTIGGKIVGSLCAIA
GVLTIALPVPVIVSNFNIFYHRETEGEEQAQYMHVGCQHLSSSAEELRKARSNSTLSKS
EYMVIEEGGMNHSAFPQTPFKTGNSTATCTTNNNPNSCVNIKKIFTDV

Product Description

Activity

Yes

Application

Screening & display technologies, Antibody development, Structural biology

Expression Systems

Cell-free expression system

Tag

Histidine tag fused to the N-terminal end of the protein

Protein Format

Proteoliposome

Form

Powder

Purification

Sucrose gradient

Purity

>60% by SDS-Page and Coomassie Blue staining

Buffer

Tris 50mM, pH 7.5

Storage

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

Target

Target Protein

Kcna3

Full Name

Potassium voltage-gated channel, shaker-related subfamily, member 3

Introduction

Kcna3 mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient.

Alternative Names

Mk-3, Kv1.3, Kca1-3

Gene ID

[16491](#)

UniProt ID

[P16390](#)