

Product Information

MemDX™ Membrane Protein Human KCNH3 (Potassium voltage-gated channel subfamily H member 3) Full Length

Cat. No.: **MPC0596K**

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

This product is a 117.1 kDa Human KCNH3 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

KCNH3

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

117.1 kDa

TMD

6

Sequence

MPAMRGLLAPQNTFLDTIATRFDGTHSNFVLGNAQVAGLFPVVYCSDFGC
DLTGFSRAEVMQRCACSFYGPDTSELVRQQIRKALDEHKEFKAEILY
RKSGLPFWCLLDVPIKNEKGEVALFLVSHKDISETKNRGGPDRWKETGG
GRRRYGRARSKGFNANRRRSRAVLHYLSGHLQKQPKGKHKLNKGVFGEKP
NLPEYKVAAIRKSPFILLHCGALRATWDGFILLATLYVAVTVPYSVCVST
AREPSAARGPPSVCDLAVEVLFIIDIVLNFRFTFVSKSGQVVFAPKSICL
HYVTTWFLLDVIAALPFDLLHAFKVNVEYFGAHLKTVRLRLRLRLPRLD
RYSQYSAVVLTLLMAVFALLAHWVACVWFYIGQREIESSESELPEIGWLQ
ELARRLETPTYLVGRRPAGGNSSGQSDNCSSSEANGTGLELLGGPSLRS
AYITSLYFALSSLTSGFGNV SANTDTEKIFSICTMLIGALMHAVVFGNV
TAIQRM YARRFLYHSRTRDLRDYIRIHRIPKPLKQRMLEYFQATWAVNN
GIDTTELLQSLPDEL RADIAMHLHKEVLQLPLFEAASRGCLRALSLALRP
AFCTPGEYLIHQGDALQALYFVCSGSMEVLKGGTVLAILGKGDIGCELP
RREQVVKANADVKGLTYCVLQCLQLAGLHDSLALYPEFAPRFSRGLRGEL
SYNLGAGGGS AEVDTSSLSGDNLTLMSTLEEKETDGEQGPTVSPAPADEPS
SPLLSPGCTSSSSAAKLLSPRRTAPRPRLGGRGRPGRAGALKAEAGPSAP
PRALEGLRLPPMPWNVPPDLSPRVVDGIEDGCGSDQPKFSFRVGGQSGPEC
SSSPSPGPESGLLTVPHGPSEARNTDLDKLRQAVTELSEQVLQMREGLQ
SLRQAVQLVLAPHREGPCPRASGEGPCPASTSGLLQPLCVDTGASSYCLQ

PPAGSVLSGTWPHRPGPPPLMAPWPWGPPASQSSPWPRATAFWTSTSDS
EPPASGDLCEPSTPASPPPSEEGARTGPAEPVSQAEATSTGEPPPGSGG
LALPWDPHSLEMLVIGCHGSGTVQWTQEEGTGV

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

KCNH3

Full Name

Potassium voltage-gated channel subfamily H member 3

Introduction

The protein encoded by this gene is a voltage-gated potassium channel alpha subunit predominantly expressed in the forebrain. Studies in mice have found that cognitive function increases when this gene is knocked out. In humans, the encoded protein has been shown to be capable of binding glycoprotein 120 of the human immunodeficiency virus type 1 (HIV-1) envelope. Two transcript variants encoding different isoforms have been found for this gene.

Alternative Names

BEC1; ELK2; Kv12.2; potassium voltage-gated channel subfamily H member 3; ELK channel 2; brain-specific eag-like channel 1; ether-a-go-go K(+) channel family member; ether-a-go-go-like potassium channel 2; potassium channel, voltage gated eag related subfamily H, member 3; potassium voltage-gated channel, subfamily H (eag-related), member 3; voltage-gated potassium channel subunit Kv12.2; KCNH3; Potassium voltage-gated channel subfamily H member 3

Gene ID

[23416](#)

UniProt ID

[Q9ULD8](#)