

Product Information

MemDX™ Membrane Protein Human KCNH2 (Potassium voltage-gated channel subfamily H member 2) Full Length

Cat. No.: **MPC0595K**

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

This product is a 126.6 kDa Human KCNH2 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

KCNH2

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

126.6 kDa

TMD

6

Sequence

MPVRRGHVAPQNTFLDTIIRKFEGQSRKFIIANARVENCAVIYCNDGFCE
LCGYSRAEVMQRPCTCDFLHGPRTRRRAAAQIAQALLGAEERKVEIAFYR
KDGSCFLCLVDVVPVKNEGDGAVIMFILNFEVMEKDMVGSPAHDNTNHRGP
PTSWLAPGRAKTFRLKLPALLALTARESSVRSGGAGGAGAPGAVVVDVDL
TPAAPSSSESLALDEVTAMDNDHVAGLGPAEERRALVPGSPPRSAPGQLPS
PRAHSLNPDASGSSCSLARTRSRESCASVRRASSADDIEAMRAGVLPPPP
RHASTGAMHPLRSGLLNSTSDSLVRYRTISKIPQITLNFVDLKGDPFLA
SPTSDREIIAPKIKERTHNVTEKVTQVLSLGADVLPEYKLQAPRIHRWTI
LHYSPPFKAVWDWLILLVIYTAVFTPYSA AFLLKETE EGPPATECGYACQ
PLAVVDLIVDIMFIVDILINFRTTYVNANEEVVSHPGRIAVHYFKGWFLI
DMVA AIPFDLLIFGSGSEELIGLLKTARLLRLVRVARKLD RYSEYGA AVL
FLLMCTFALIAHWLACI WYAIGNMEQPHMDSRIGWLHNLGDQIGKPYNSS
GLGGPSIKDKYVTALYFTFSSLT SVGF GNVSPNTNSEKIFSICV MLIGSL
MYASIFGNVSAIQRLYSGTARYHTQMLRVREFIRFHQIPNPLRQRLEEY
FQHAWSYTNGIDMNAVLKGFPECLQADICLHLNRSLLQHCKPFRGATKGC
LRALAMKFKTTHAPPGDTLVHAGDLLTALYFISRGSIEILRGDVVVAILG
KNDIFGEPLNLYARPGKSNGDVRALTYCDLHKIHRDDLLEVLD MYPEFSD
HFWSSLEITFNLRDTNMIPGSPGSTELEGGFSRQRKRKLSFRRRTDKDTE
QPGEVSALGPGRAGAGPSSRGRPGGPWGESPSSGSPSPESSEDEGPGRSS

SPLRLVPFSSPRPPGEPGGEPLMEDCEKSSDTCNPLSGAFSGVSNIFS
WGDSRGRQYQELPRCPAPTPSLLNIPLSSPGRRPRGDVESRLDALQRQLN
RLETRLADMATVLQLLQRQMTLVPPAYSAVTTGPGPTSTSPLLPV SPL
PTLTLDLSQVSQFMACEELPPGAPELPQEGPTRRLSLPGQLGALTSQPL
HRHGSDPGS

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

KCNH2

Full Name

Potassium voltage-gated channel subfamily H member 2

Introduction

This gene encodes a voltage-activated potassium channel belonging to the eag family. It shares sequence similarity with the Drosophila ether-a-go-go (eag) gene. Mutations in this gene can cause long QT syndrome type 2 (LQT2). Transcript variants encoding distinct isoforms have been identified.

Alternative Names

ERG1; HERG; LQT2; SQT1; ERG-1; H-ERG; HERG1; Kv11.1; potassium voltage-gated channel subfamily H member 2; eag homolog; eag-related protein 1; ether-a-go-go-related gene potassium channel 1; ether-a-go-go-related potassium channel protein; ether-a-go-go-related protein 1; human ether-a-go-go-related; long QT syndrome type 2; potassium channel, voltage gated eag related subfamily H, member 2; potassium voltage-gated channel, subfamily H (eag-related), member 2; voltage-gated potassium channel subunit Kv11.1; KCNH2; Potassium voltage-gated channel subfamily H member 2

Gene ID

[3757](#)

UniProt ID

[Q12809](#)