

## Product Information

### MemDX™ Membrane Protein Human KCNAB2 (Potassium voltage-gated channel subfamily A regulatory beta subunit 2) Full Length

Cat. No.: **MPC1041K**

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

This product is a 41 kDa Human KCNAB2 membrane protein expressed in *E.coli*. 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

KCNAB2

##### Protein Length

Full length

##### Protein Class

Transporter; Ion channel

##### Molecular Weight

41 kDa

##### Sequence

MYPESTTGSPARLSLRQTGSPGMIYSTRYGSPIKRQLQFYRNLGKGLRVS  
CLGLGTWVTFGGQITDEMAEQLMTLAYDNGINLFDTAEVYAAKGKAEVVLG  
NIIKKKGWRRSSLVITTKIFWGGKAETERGLSRKIIIEGLKASLERLQLE  
YVDVVFANRPDPNTPMEETVRAMTHVINQGMAMYWGTSRWSSMEIMEAYS  
VARQFNLTPPICEQAEYHMFQREKVEVQLPELFHKIGVGAMTWSPLACGI  
VSGKYDSDGIPPPYSRASLKGYQWLKDILSEEGRRQQAKLKEHQIAERLG  
CTLPQLAIWCLRNEGVSLLGASNADQLMENIGAIQVLPKLSSIIHE  
IDSILGNKPYSKKDYRS

#### Product Description

##### Expression Systems

*E.coli*

##### 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**

KCNAB2

**Full Name**

Potassium voltage-gated channel subfamily A regulatory beta subunit 2

**Introduction**

Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in *Drosophila*, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member is one of the beta subunits, which are auxiliary proteins associating with functional Kv-alpha subunits. This member alters functional properties of the KCNA4 gene product. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms.

**Alternative Names**

KCNAB2; AKR6A5; KCNA2B; HKbeta2; KV-BETA-2; HKbeta2.1; HKbeta2.2; voltage-gated potassium channel subunit beta-2; K(+) channel subunit beta-2; potassium channel, voltage gated subfamily A regulatory beta subunit 2; potassium voltage-gated channel, shaker-related subfamily, beta member 2; hKbeta2; KCNK2; Potassium voltage-gated channel subfamily A regulatory beta subunit 2

**Gene ID**

[8514](#)

**UniProt ID**

[Q13303](#)