

# Product Information

## **MemDX™ Membrane Protein Human KCNF1 (Potassium voltage-gated channel modifier subfamily F member 1) expressed in HEK293T for Antibody Discovery**

Cat. No.: **MP1238J**

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

This product is a 55.4 kDa Human KCNF1 membrane protein expressed in HEK293T. 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

KCNF1

#### Protein Length

Full-length

#### Protein Class

Druggable Genome, Ion Channels: Potassium, Transmembrane

#### Molecular Weight

55.4 kDa

#### TMD

6

#### Sequence

MDGSGERSLPEPGSQSSAASDDIEIVNVGGVRQVLYGDLLSQYPETRLAELINCLAGGYDTIFSLCDDY  
DPGKREFYFDRDPDAFKCVIEVYFGEVHMKKGICPICFKNEMDFWKVDLKFLLDDCKSHLSEKREELEE  
IARRVQLILDDLGVDAEGRWRCQKCVWKFLEKPESSCPARVVAVLSFLLILVSSVVMCMGTIPELQVL  
DAEGNRVEHPTLENVETACIGWFTLEYLLRLFSSPNKLHFALSMNIVDVLAILPFYVSLTLTHLGARMM  
ELTNVQQAVQALRIMRIARIFKLARHSSGLQTLTYALKRSFKELGLLMYLAVGIFVFSALGYTMEQSHP  
ETLFKSIPQSFWWAITMTTVGYGDIYPKTTLGKLNAAISFLCGVIAIALPIHPIINNFVRYYNKQRVLE  
TAAKHELELMELNSSSGGEGKTGGSRSDDLNPPEPAGKEAPSCSSRLKLSHSDTFIPLLTEEKHHRTRL  
QSCK

### Product Description

#### Expression Systems

HEK293T

#### Tag

C-Myc/DDK

**Form**

Liquid

**Purification**

Anti-DDK affinity column followed by conventional chromatography steps

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer**

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

**Storage**

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

**Target****Target Protein**

KCNF1

**Full Name**

Potassium voltage-gated channel modifier subfamily F member 1

**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. This gene encodes a member of the potassium channel, voltage-gated, subfamily F. This gene is intronless and expressed in all tissues tested, including the heart, skeletal muscle, brain, kidney, and pancreas.

**Alternative Names**

IK8; kH1; KCNF; KV5.1; potassium channel KH1; voltage-gated potassium channel subunit Kv5.1

**Gene ID**

[3754](#)

**UniProt ID**

[Q9H3M0](#)