

## Product Information

### **MemDX™ Membrane Protein Human TRPC4 (Transient receptor potential cation channel subfamily C member 4) Full Length**

Cat. No.: **MPC0957K**

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

This product is a 112.1 kDa Human TRPC4 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

TRPC4

##### Protein Length

Full length

##### Protein Class

Transporter; Ion channel

##### Molecular Weight

112.1 kDa

##### TMD

6

##### Sequence

MAQFY YKRNVNAPYRDRIPLRIVRAESELSPSEKAYLNAVEKGDYASVKK  
SLEEAEIYFKININCIDPLGRTALLIAIENENLELIELLLSFNVVYVDAL  
LHAIRKEVVGAVELLNHHKPSGEKQVPPILLDKQFSEFTPDITPIILAA  
HTNNYEIIKLLVQKGVSVPRPHEVRCNCVECVSSSDVDSL RHSRSLNIY  
KALASPSLIALSSEDPFLTAFQLSWELQELSKVENEFEKSEYEELSRQCKQ  
FAKDLLDQTRSSRELEIILNYRDDNSLIEEQSGNDLARLKLAIKYRQKEF  
VAQPNCQQLLASRWYDEFPGWRRRHWA VKMVT CFIIGLLFPVFSVCYLIA  
PKSPLGLFIRKPFIFIKHTASYLTFLFLLLASQHIDRSDLNRQGPPPT  
IVEWMILPWVLGFIWGEIKQMWDGGLQDYIHDWWNLMDFVMNSLYLATIS  
LKIVAFVKYSALNPRESWDMWHPTLVAEALFAIANIFSSRLISLFTANS  
HLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLYFYEEETKGLTCK  
GIRCEKQNNAFSTLFETLQSLFWSIFGLINLYVTNVKAQHEFTEFVGATM  
FGTYNVISLVLLNMLIAMMNNSYQLIADHADIEWKFARTKLWMSYFEEG  
GTLPTPFNVIPSPKSLWYLIKWIWTHLCKKKMRRKPESFGTIGRRAADNL  
RRHHQYQEV MRNLVKRYVAAMIRDAKTEEGLTEENFKELKQDISSFRFEV  
LGLLRGSKLSTIQSANASKESSNSADSDEKSDSEGNSKDKKKNFSLFDLT  
TLIHPRSAAIASERHNISNGSALVVQEPPEKQRKVN FVTDIKNFGLFHR  
RSKQNAAEQANANQIFSVSEEVARQQAAGPLERNIQLESRGLASRGDLSIP  
GLSEQCVLVDHRRERNTDTLGLQVGKRVCPFKSEKVVVEDTVPIIPKEKHA

## 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 -72°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

TRPC4

### Full Name

Transient receptor potential cation channel subfamily C member 4

### Introduction

This gene encodes a member of the canonical subfamily of transient receptor potential cation channels. The encoded protein forms a non-selective calcium-permeable cation channel that is activated by Gq-coupled receptors and tyrosine kinases, and plays a role in multiple processes including endothelial permeability, vasodilation, neurotransmitter release and cell proliferation. Single nucleotide polymorphisms in this gene may be associated with generalized epilepsy with photosensitivity. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

### Alternative Names

TRP4; HTRP4; HTRP-4; short transient receptor potential channel 4; trp-related protein 4; TRPC4; Transient receptor potential cation channel subfamily C member 4

### Gene ID

[7223](#)

### UniProt ID

[Q9UBN4](#)