

# Product Information

## **MemDX™ Membrane Protein Human TRPM5 (Transient receptor potential cation channel subfamily M member 5) Full Length**

Cat. No.: **MPC0966K**

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

This product is a 131.4 kDa Human TRPM5 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

TRPM5

#### Protein Length

Full length

#### Protein Class

Transporter; Ion channel

#### Molecular Weight

131.4 kDa

#### TMD

6

#### Sequence

MQDVQGPRPGSPGDAEDRRELGLHRGEVNFGGSGKKRGKFVRVPSGVAPS  
VLFDLLLAEWHLPPAPNLVSVLGEEQPFAMKSWLRDVLKGLVKAAQSTG  
AWILTSALRVGLARHVGQAVRDHSLASTSTKVRVAVGMASLGRVLHRR  
LEEAEQDFPVHYPEDDGGSGQPLCSLDSNLSHFILVEPGPPGKGDGLTEL  
RLRLEKHISEQRAGYGGTGSIEIPVLCLLVNGDPNTLERISRAVEQAAPW  
LILVGSGGIADVLAALVNQPHLLVPKVAEKQFKEKFPKSHFSWEDIVRWT  
KLLQNTSHQHLLTVYDFEQEGSEELDTVILKALVKACKSHSQEPQDYLD  
ELKLAVAWDRVDIAKSEIFNGDVEWKSCDLEEVMDALVSNKPEFVRLFV  
DNGADVADFLTYGRLQELYSVSRKSLLFDLLQRKQEEARLTLAAGLTQQ  
AREPPAGPPAFSLHEVSRVLKDFLQDACRGFYQDGRPGDRRRAEKGPAPK  
PTGQKWLLDLNQKSENPWRLDFLWAVLQNRHEMATYFWAMGQEGVAAALA  
ACKILKEMSHLETEAEAAARATREAKYERLALDLFSECYSNSEARAFALLV  
RRNRCWSKTTCLHLATEADAKAFFAHGQVQAFLTRIWWGDMAAGTPILRL  
LGAFLCPALVYTNLITFSEEAPLRTGLEDLQDLDSLDEKSPYGLQSRV  
EELVEAPRAQGDRGPRAVFLTRWRKFWGAPVTVFLGNVVMYFAFLFLFT  
YVLLVDFRPPPQGPSGPEVTLYFWVFTLVLEEIRQGFFTDDETHLVKKFT  
LYVGDNWNKCDMVAIFLIVGVTCTMLPSAFEAGRTVLAMDFMVFTLRLLI  
HIFAIHKQLGPKIIVVERMMKDVFFLFFLSVWLVAYGVTTQALLHHPHDG  
RLEWIFRRVLYRPLYLQIFGQIPLDEIDEARVNCSTHPLLEDSPSCPSLY

ANWLVILLVTFLLVTNVLLMNLLIAMFSYTFQVVQGNADMFWKFQRYNL  
IVEYHERPALAPPFILLSHLSLTLRVFKKEAEHKREHLERDLPDPLDQK  
VVTWETVQKENFLSKMEKRRRDSEGEVLRKTAHRVDFIAKYLGGLREQEK  
RIKCLESQINYCSVLVSSVADVLAQGGGPRSSQHCGEGSQLVAADHRGGL  
DGWEQPGAGQPPSDT

## 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

TRPM5

### Full Name

Transient receptor potential cation channel subfamily M member 5

### Introduction

This gene encodes a member of the transient receptor potential (TRP) protein family, which is a diverse group of proteins with structural features typical of ion channels. This protein plays an important role in taste transduction, and has characteristics of a calcium-activated, non-selective cation channel that carries Na<sup>+</sup>, K<sup>+</sup>, and Cs<sup>+</sup> ions equally well, but not Ca(2<sup>+</sup>) ions. It is activated by lower concentrations of intracellular Ca(2<sup>+</sup>), and inhibited by higher concentrations. It is also a highly temperature-sensitive, heat activated channel showing a steep increase of inward currents at temperatures between 15 and 35 degrees Celsius. This gene is located within the Beckwith-Wiedemann syndrome critical region-1 on chromosome 11p15.5, and has been shown to be imprinted, with exclusive expression from the paternal allele.

### Alternative Names

MTR1; LTRPC5; MLSN1 and TRP-related; MLSN1- and TRP-related gene 1 protein; long transient receptor potential channel 5; TRPM5; Transient receptor potential cation channel subfamily M member 5

### Gene ID

[29850](#)

### UniProt ID

[Q9NZQ8](#)