

Product Information

MemDX™ Membrane Protein Human TRPM6 (Transient receptor potential cation channel subfamily M member 6) Full Length

Cat. No.: **MPC0967K**

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

This product is a 231.7 kDa Human TRPM6 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

TRPM6

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

231.7 kDa

TMD

6

Sequence

MKEQPVLRLQSQKSWIKGVFDKRECSTIIPSSKNPHRCTPVCQVCQNLI
RCYCGRLIGDHAGIDYSWTISAAGKKESEQWSVEKHTTKSPTDTFGTINF
QDGEHTHHAKYIRTSYDTKLDHLLHMLKEWKMEPKLVISVHGGIQNFT
MPSKFKEIFSQGLVKA AETTGAWIITEGINTGVSKHVG DALKSHSSHSLR
KIWTVGIPPWGV IENQRDLIGKDVVCLYQTL DNPLSKLTTLNSMHSFIL
SDDGTVGKYGNEMKLRRNLEKYL SLQKIHCRSRQGVPV VGLVVEGGPNVI
LSVWETVKDKDPVVVCEGTGRAADLLAFT HKHLADEGMLRPQVKEE IICM
IQNTFNFSLKQSKHLFQILMECMVHRDCITIFDADSEEQQDLDLAIL TAL
LKGTNLSASEQLNLAMAWDRVDI AKKHILIYEQHWKPDAL EQAMSDALVM
DRVDFVKLLIEYGVNLHRFLTIPRLEELYNTKQGPTNTLLHHLVQDVKQH
TLLSGYRITLIDIGLVVEYLIGRAYRSNYTRKHFRALYNNLYRKYKHQRH
SSGNRNESAESTLHSQFIRTAQPYKFKEKSIVLHKS RKKSK EQNVSD DPE
STGFLYPYNDLLVWAVLMKRQKMAMFFWQH GEEATVKAVIACILYRAMAH
EAKESHMVDDASEELKNYSKQFGQLALDLLEKAFKQNERMAMTLLTYELR
NWSNSTCLKLAVSGGLRPFVSH TCTQMLLTDMWMGRLKMRKNSWLKIIIS
IILPTILTLEFKS KAEMSHVPQSQDFQFMWYYSDQNASSSKESASVKEY
DLERGHDEKLDENQHFGLES GHQHLPWTRKVYEFYSAPIVKFWFYTMAYL
AFLMLFTYTVLVEMQPQPSVQE WLVSIIYIFTNAIEVVREICISEPGKFTQ
KVKVWISEYWNLTTETVAIGLFSAGFVLRWGDPPFHTAGRLIYCIDII FWF

SRLLDFFAVNQHAGPYVTMIKMTANMFYIVIIMAILLSFGVARKAILS
PKEPPSWSLARDIVFEPYWMIYGEVYAGEIDVCSSQPSCPPGSFLTPTFLQ
AVYLFVQYIIMVNLLIAFFNNVYLDMESISNNLWKYNRYRYIMTYHEKPW
LPPPLILLSHVGLLLRRLCCHRAHPDQEEGDVGLKLYLSKEDLKKLHDFE
EQCVEKYFHEKMEDVNCSCERIRVTSEMYFQLKEMNEKVSFIKDS
LLSLDSQVGHLDLSALTVDTLKVL SAVDTLQED EALLAKRKHSTCKKLP
HSWSNVICAEVLGSMEIAGEKKYQYYSMPSSLLRSLAGGRHPPRVQRGAL
LEITNSKREATNVRNDQERQETQSSIVVSGVSPNRQAHSKYGQFLLVPSN
LKRVPFSAETVLP LSRPSVPDVLATEQDIQTEVLVHLTGQTPVSDWASV
DEPKEKHEPIAHLLDGQDAEQVLPTLSCTPEPMTMSSPLSQAKIMQTGG
GYVNWAFSEGDETGVFSIKKKWQTCLPSTCDSDSSRSEQHQKQAQDSSL
DNSTRSAQSSECSEVGPWLQPNSTFWINPLRRYRPFARSHSFRFHKEEKL
MKICKIKNLSGSSEIGQGAWVKAKMLTKDRRLSKKKKNTQGLQVPIITVN
ACSQSDQLNPEPGENSISEEEYSKNWFTVSKFSHTGVEPYIHQKMKTKEI
GQCAIQISDYLKQSQEDLSKNLWNSRSTNLNRNSLLKSSIGVDKISASL
KSPQEPHHHYSAIERNLMLRSQTIPFTPVQLFAGEEITVYRLEESSPLN
LDKSMSSWSQRGRAAMIQVLSREEMDGGLRKAMRVVSTWSEDDILKPGQV
FIVKSFLPEVVRTWHKIFQESTVLHLCLREIQQRRAAQKLIYTFNQVKPQ
TIPYTPRFLEVFLIYCHSANQWLTIEKYMTGEFRKYNNNNNGDEITPTNL
EELMLAFSHWTYEYTRGELLVLDLQGVGENLTDPSVIKPEVKQSRGMVFG
PANLGEDAIRNFIKHHHCNCCRLKLPDLKRNDYSPERINSTFGLEIKI
ESAEPPARETGRNSPEDDMQL

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

TRPM6

Full Name

Transient receptor potential cation channel subfamily M member 6

Introduction

This gene is predominantly expressed in the kidney and colon, and encodes a protein containing an ion channel domain and a protein kinase domain. It is crucial for magnesium homeostasis, and plays an essential role in epithelial magnesium transport and in the active magnesium absorption in the gut and kidney. Mutations in this gene are associated with hypomagnesemia with secondary hypocalcemia. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

Alternative Names

HSH; HMGX; HOMG; CHAK2; HOMG1; transient receptor potential cation channel subfamily M member 6; channel kinase 2; melastatin-related TRP cation channel 6; TRPM6; Transient receptor potential cation channel subfamily M member 6

Gene ID

[140803](#)

UniProt ID

[Q9BX84](#)