

Product Information

MemDX™ Membrane Protein Human PIEZO1 (Piezo type mechanosensitive ion channel component 1) Full Length

Cat. No.: **MPC0690K**

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

This product is a 286.7 kDa Human PIEZO1 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

PIEZO1

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

286.7 kDa

TMD

36

Sequence

MEPHVLGAVLYWLLLPALLAACLLRFSGLSLVYLLFLLLPWFPGPTRC
GLQGHTGRLLRALLGLSLLFLVAHLALQICLHIVPRLDQLLGPSCSRWET
LSRHIGVTRLDLKDIPNAIRLVAPDLGILVSSVCLGICGRLARNTRQSP
HPRELDDEDERDVASPTAGLQEAATLAPTRRSRLAARFRVTAHWLLVAAG
RVLAVTLLALAGIAHPSALSSVYLLFLALCTWWACHFPISTRGFSRLCV
AVGCFGAGHLICLYCYQMPLAQALLPPAGIWARVLGLKDFVGPTNCSSPH
ALVLNTGLDWPVYASPGVLLLLCYATASLRKLRAIRPSGQRKEAAKGYES
RELELAELDQWPQERESDQHVVPTAPDTEADNCIVHELTGQSSVLRRPVR
PKRAEPREASPLHSLGHLIMDQSYVCALIAMMVWSITYHSWLTFLVLLWA
CLIWTVRSRHLQMLCSPCILLYGMTLCCLRYVWAMDRLPELPTTLGPVS
LRQLGLEHTRYPCLDLGAMLLYTLTFWLLLRQFVKEKLLKWAESPAALTE
VTVADTEPTRTQTLLQSLGELVKGVIYKWIYVCAGMFIVVSFAGRLVY
KIVYMFLFLLCLTLFQVYYSWRKLLKAFWWLVVAYTMLVLIAYVTFQFQ
DFPAYWRNLTGFTDEQLGDLGLEQFSVSELFSSILVPGFFLLACILQLHY
FHRPFMQLTDMHVSLPGTRLPRWAHRQDAVSGTPLLREEQQEHQQQQQE
EEEEEDSRDEGLGVATPHQATQVPEGAAGWGLVAERLLELAAGFSDVLS
RVQVFLRRLLELHVFKLVALYTVWVALKEVSVMNLLLVLWAFALPYPRF
RPMASCLSTVWTCVIIVCKMLYQLKVVNPQEYSSNCTEPFPNSTNLLPTE
ISQSLLYRGPVDPANWFGVRKGFPNLGYIQNHLQVLLLLVFEAIVYRRQE

HYRRQHQLAPLPAQAVFASGTRQQLDQDLLGCLKYFINFFFYKFGLEICF
LMAVNVIGQRMNFLVTLHGCWLVAILTRRHRQAIARLWPNYCLFLALFLL
YQYLLCLGMPPALCIDYPWRWSRAVPMNSALIKWLYLPDFFRAPNSTNLI
SDFLLLLCASQQWQVFSATERTEEWQRMAGVNTDRLEPLRGEPNPVNFH
CRSYLDMCLKVAVFRYLFWLVLVVVFTGATRISIFGLGYLLACFYLLLFG
TALLQRDTRARLVLWDCILYNVTVIISKNMLSLLACVFVEQMQTGFCWV
IQLFSLVCTVKGYYPKEMMDRDQDCLLPVEEAGIIWDSVCFFFLLLQRR
VFLSHYYLHVRADLQATALLASRGFALYNAANLKSIDFHRRIEEKSLAQL
KRQMERIRAKQEKHRQGRVDRSRPQDTLGPKDPGLEPGPDSPGGSSPPRR
QWWRPWLDHATVIHSGDYFLFESDSEEEEEAVPEDPRPSAQSAFQLAYQA
WVTNAQAVLRRRQQEQEQARQEAGQLPTGGGPSQEVEPAEGPEEAAAAGR
SHVVQRVLSTAQFLWMLGQALVDELTRWLQEFTRHHGTMSDVLRAERYLL
TQELLQGGEVHRGVLDQLYTSQAEATLPGPTEAPNAPSTVSSGLGAEPL
SSMTDDMGSPSTGYHTRSGSEEAVTDPGEREAGASLYQGLMRTASELLL
DRRLRIPELEEAELFAEGQGGRALRLLRAVYQCVAHSELLCYFIILNHM
VTASAGSLVLPVLVFLWAMLSIPRPSKRFWMTAIVFTEIAVVVKYLFQFG
FFPWNSHVVLRRYENKPYFPPRILGLEKTDGYIKYDLVQLMALFFHRSQ
LCYGLWDHEEDSPSKEHDKSGEEEQGAEEGPGVPAATTEDHIQVEARVGP
TDGTPEPQVELRPRDTRRISLRFRRRKKEGPARKGAAAIEAEDREEEGE
EEKEAPTGREKRPSRSGGRVRAAGRRLQGFCLSLAQGTYRPLRRFFHDIL
HTKYRAATDVYALMFLADVDFIIIFGFWAFGKHSAAITDITSSLSDDQV
PEAFLVMLLIQFSTMVVDRALYLRKTVLGKLAQVALVLAHLWMFFILP
AVTERMFNQNVVAQLWYFVKCIYFALSAYQIRCGYPTRILGNFLTCKYNH
LNLFLFQGFRLVPFLVELRAVMDWVWTDTTLSLSSWMCVEDIYANIFI
CSRETEKKYPQPKGQKKKKIVKYGMGGLIILFLIAIWFPLLFMSLVR
VGVVNQPIDVTVLTKLGGYEPLFTMSAQQPSIIPFTAQAYEELSRQFDPQ
PLAMQFISQYSPEDIVTAQIEGSSGALWRISPPSRAQMKRELYNGTADIT
LRFTWNFQRDLAKGGTVEYANEKHMALAPNSTARRQLASLLEGTSDQSV
VIPNLFPKYIRAPNGPEANPVKQLQPNEEADYLGVRILRREQGAGATGF
LEWVWVIELQECRTDCNLLPMVIFSDKVSPPSLGFLAGYGIMGLYVSIVLV
IGKFVRGFFSEISHSIMFEELPCVDRILKLCQDIFLVRETRELEEEELY
AKLIFLYRSPETMIKW TREKE

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 -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

PIEZO1

Full Name

Piezo type mechanosensitive ion channel component 1

Introduction

The protein encoded by this gene is a mechanically-activated ion channel that links mechanical forces to biological signals. The encoded protein contains 36 transmembrane domains and functions as a homotetramer. Defects in this gene have been associated with dehydrated hereditary stomatocytosis.

Alternative Names

DHS; Mib; LMPH3; FAM38A; LMPHM6; piezo-type mechanosensitive ion channel component 1; family with sequence similarity 38, member A; membrane protein induced by beta-amyloid treatment; PIEZO1; Piezo type mechanosensitive ion channel component 1

Gene ID

[9780](#)

UniProt ID

[Q92508](#)