

Product Information

MemDX™ Membrane Protein Human ITPR1 (Inositol 1,4,5-trisphosphate receptor type 1)

Full Length

Cat. No.: **MPC1042K**

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

This product is a 313.9 kDa Human ITPR1 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

ITPR1

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

313.9 kDa

TMD

6

Sequence

MSDKMSSFLHIGDICSLEYAEGSTNGFISTLGLVDDRCVVQPETGDLNPP
KKFRDCLFKLCPMNRYSAQKQFWKAAKPGANSTTDAVLLNKLHHAADLEK
KQNETENRKLLGTVIQYGNVIQLLHLKSNKYLTVNKRLPALLEKNAMRVT
LDEAGNEGSWFYIQPFYKLRSIGDSVIGDKVVLNPNVAGQPLHASSHQL
VDNPGCNEVNSVNCNTSWKIVLFMKWSDNKDDILKGGDVVRLFHAEQEF
LTCDEHRKKQHVFRLTTGRQSATSATSSKALWEVEVVQHDPCRGGAGYWN
SLFRFKHLATGHYLAAEVDPDFEEECLEFQPSVDPDQDASRSRLRNAQEK
MVYSLVSVPEGNDISSIFELDPTTLRGGDSLVRNSYVRLRHLCNTWVH
STNIPIDKEEEKPVMLKIGTSPVKEDKEAFAIVPVSPAIEVRDLDFANDAS
KVLGSIAGKLEKGTITQNERRSVTKLLEDLVYFVTGGTNSGQDVLEVVS
KPNRERQKLMREQNILKQIFKLLQAPFTDCGDPMLRLEELGDQRHAPFR
HICRLCYRVLRLHSQQDYRKNQEYIAKQFGFMQKQIGYDVLAEDETITALLH
NNRKLLEKHITAAEIDTFVSLVRKNREPRFLDYLSDLCSVMNKSIPVTQE
LICKAVLNPTNADILITKLVLRSRFEFEGVSSTGENALEAGEDEEEVWLF
WRDSNKEIRSKSVRELAQDAKEGQKEDRDVLSYYRYQLNLFARMCLDRQY
LAINEISGQLDVLILRCMSDENLPYDLRASFCRLMLMHVDRDPQEQVT
PVKYARLWSEIPSEIAIDDYDSSGASKDEIKERFAQTMEFVEEYLRDVVC
QRFPFSDKEKNKLTFEVVNLARNLIYFGFYNFSDLLRLTKILLAILDCVH
VTTIFPISKMAKGEENKGNNDVEKLKSSNVMRSIHGVGELMTQVVLRGGG

FLPMTPMAAPEGNVKQAEPEKEDIMVMDTKLKIIELQFILNVRLDYRI
SCLLCIFKREFDESNSQTSETSSGNSSQEGPSNVPGALDFEHIEEQAEGI
FGGSEENTPLDLDHGGRTFLRVLLHLMHDYPPPLVSGALQLLFRHFSQR
QEVLLQAFKQVQLLVTSQDQVDNYKQIKQDLDQLRSIVEKSELWVYKGQGP
ETMDGASGENEHKKTEEGNNKPQKHSTSSYNRVVKEILIRLSKLCVQE
SASVRKSRKQQQRLLRNMGAAHVLELLQIPYEKAEDTKMQEIMRLAHEF
LQNFCAQNQQNQALLHKKHINLFLNPGILEAVTMQHIFMNNFQLCSEINER
VVQHFVHCIEETHGRNVQYIKFLQTIVKAEGKFIKKCQDMVMAELVNSGED
VLVFYNDRASFTLIQMMRSEDRMDENSPLMYHIHLVELLAVCTEGKNV
YTEIKCNSLLPLDDIVRVVTHEDCIPEVKIAYINFLNHCYVDTEVEMKEI
YTSNHMWKLFENFLVDICRACNNTSDRKHADSIKLYVTEIVMSIVTTFF
SSPFSQSTTLQTRQPVFVQLLQGVFRVYHCNWLMPQSQKASVESCIRVLS
DVAKSRAIAIPVDLDSQVNNLFLKSHSIVQKTAMNWRLSARNAARRDSVL
AASRDYRNIIERLQDIVSALEDRLRPLVQAELSVLVDVLHRPELLFPENT
DARRKCESGGFICKLIKHTKQLLEENEEKLCIKVLQTLREMMTKDRGYGE
KLISIDELDNAELPPAPDSENATEELESPPLRQLEDHKGREALRQVLVN
RYYGNVRPSGRRESLTSFGNGPLSAGGPGKPGGGGGSGSSSMSRGEMSL
AEVQCHLDKEGASNLVIDLIMNASSDRVFHESILLAILLEGNTTIQHS
FFCRLTEDKKSEKFFKVFYDRMKVAQQEIKATVTVNTSDLGNKKKDDDEVD
RDAPSRKKAKEPTTQITEEVDRDQLLEASAATRKAFITFRREADPDDHYQP
GEGTQATADKAKDDLEMSAVITIMQPILRFLQLLCENHNRLQNLFLRCQN
NKTNYNLVCETLQFLDCICGSTTGGLGLLGLYINEKNVALINQTLLESLTE
YCQGPCHENQNCIATHESNGIDIITALILNDINPLGKKRMDLVLELKNNNA
SKLLLAIMESRHDSENAERILYNMRPKELVEVIKKAYMQGEVEFEDGENG
EDGAASPRNVGHNIYILAHQLARHNKELQSMLKPGGQVDGDEALEFYAKH
TAQIEIVRLDRTMEQIVFPVPSICEFLTKEKSLRIYYTTERDEQGSKIND
FFLRSEDLFNEMNWQKKLRAQPVLYWCARNMSFWSSISFNLAVLMNLLVA
FFYPFKGVRGGTLEPHWSGLLWTAMLISLAIVIALPKPHGIRALIASTIL
RLIFSVGLQPTLFLLGAFNVCNKIIFLMSFVGNCGTFTRGYRAMVLDVEF
LYHLLYLVICAMGLFVHEFFYSLLLFDLVYREETLLNVIKSVTRNGRSII
LTAVLALILVYLFVSVGYLFFKDDFILEVDRLPNETAVPETGESLASEFL
FSDVCRVESGENCSSPAPREELVPAEETEQDKEHTCETLLMCIVTVLSHG
LRSGGGVGDVLRKPSKEEPLFAARVIYDLLFFFMVIIIVLNLIFGVIIDT
FADLRSEKQKKEEILKTTFCICGLERDKFDNKTVTFEHIEEHNMWHYL
CFIVLVKVKDSTEYTGPESYVAEMIKERNLDWFPRMRAMSLVSSDSEGEQ
NELRNLQEKLESTMKLVTNLSGQLSELKQDMTEQRKQKQRIGLLGHPPHM
NVNPQQPA

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

ITPR1

Full Name

Inositol 1,4,5-trisphosphate receptor type 1

Introduction

This gene encodes an intracellular receptor for inositol 1,4,5-trisphosphate. Upon stimulation by inositol 1,4,5-trisphosphate, this receptor mediates calcium release from the endoplasmic reticulum. Mutations in this gene cause spinocerebellar ataxia type 15, a disease associated with an heterogeneous group of cerebellar disorders. Multiple transcript variants have been identified for this gene.

Alternative Names

ITPR1; ACV; CLA4; IP3R; IP3R1; SCA15; SCA16; SCA29; INSP3R1; PPP1R94; IP3 receptor; IP3R 1; inositol 1,4,5-trisphosphate receptor, type 1; protein phosphatase 1, regulatory subunit 94; type 1 InsP3 receptor; type 1 inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate receptor type 1

Gene ID

[3708](#)

UniProt ID

[Q14643](#)