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Product Information

MemDX™ Membrane Protein Human RYR3 (Ryanodine receptor 3) Full Length

Cat. No.: **MPC1068K**
This product is for research use only and is not intended for diagnostic use.

This product is a 552 kDa Human RYR3 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
RYR3

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
552 kDa

TMD
7

Sequence
MAEGGEGGEDEIQFLRTEDEVVLQCIATIHKEQRKFCLAAEGLGNRLCFL
EPTSEAKYIPPDLCVCNFVLEQSLSVRALQEMLANTGENGGEGAAQGGGH
RTLLYGHAVLLRHSFSGMYLTCLTTSRSQTDKLAFDVGLREHATGEACWW
TIHPASKQRSEGEKVRIGDDLILVSVSSERYLHLSVSNGNIQVDASFMQT
LWNVHPTCSGSSIEEGYLLGGHVVRLFHGHDECLTIPSTDQNDSQHRRIF
YEAGGAGTRARSLWRVEPLRISWSGSNIRWGQAFRLRHLTTGHYLALTED
QGLILQDRAKSDTKSTAFSFRASKELKEKLDSSHKRDIEGMGVPEIKYGD
SVCFVQHIASGLWVTYKAQDAKTSRLGPLKRKVILHQEGHMDDGLTLQRC
QREESQAARIIRNTTALFSQFVSGNNRTAAPITLPIEEVLQTLQDLIAYF
QPPEEEMRHEDKQNKLRSLKNRQNLFKEEGMLALVLNCIDRLNVYNSVAH
FAGIAREESGMAWKEILNLLYKLLAALIRGNRNNCAQFSNNLDWLISKLD
RLESSSGILEVLHCILTESPEALNLIAEGHIKSIISLLDKHGRNHKVLDI
LCSLCLCNGVAVRANQNLICDNLLPRRNLLLQTRLINDVTSIRPNIFLGV
AEGSAQYKKWYFELIIDQVDPFLTAEPTHLRVGWASSSGYAPYPGGGEGW
GGNGVGDDLYSYGFDGLHLWSGRIPRAVASINQHLLRSDDVVSCCLDLGV
PSISFRINGQPVQGMFENFNTDGLFFPVMSFSAGVKVRFLMGGRHGEFKF
LPPSGYAPCYEALLPKEKMRLEPVKEYKRDADGIRDLLGTTQFLSQASFI
PCPVDTSQVILPPHLEKIRDRLAENIHELWGMNKIELGWTFGKIRDDNKR
QHPCLVEFSKLPETEKNYNLQMSTETLKTLLALGCHIAHVNPAAEEDLKK
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IEPSDQELADSAVEKVSIDKIRFFRVERSYAVRSGKWYFEFEVVTGGDMR
VGWARPGCRPDVELGADDQAFVFEGNRGQRWHQGSGYFGRTWQPGDVVGC
MINLDDASMIFTLNGELLITNKGSELAFADYEIENGFVPICCLGLSQIGR
MNLGTDASTFKFYTMCGLQEGFEPFAVNMNRDVAMWFSKRLPTFVNVPKD
HPHIEVMRIDGTMDSPPCLKVTHKTFGTQNSNADMIYCRLSMPVECHSSF
SHSPCLDSEAFQKRKQMQEILSHTTTQCYYAIRIFAGQDPSCVWVGWVTP
DYHLYSEKFDLNKNCTVTVTLGDERGRVHESVKRSNCYMVWGGDIVASSQ
RSNRSNVDLEIGCLVDLAMGMLSFSANGKELGTCYQVEPNTKVFPAVFLQ
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SRMPNSFLKVETERVSERHGWVVQCLEPLQMMALHIPEENRCVDILELCE
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GLPGVGLRTCLKPGFRFSTPCFVVTGEDHQKQSPEIPLESLRTKALSMLT
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PEMHLIQTGKGEAIRIRSILRSLVPTEDLVGIISIPLKLPSLNKDGSVSE
PDMAANFCPDHKAPMVLFLDRVYGIKDQTFLLHLLEVGFLPDLRASASLD
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ENLPPSTGPCCTKVTSEHLSLILGNILKIINNNLGIDEASWMKRIAVYAQ
PIISKARPDLLRSHFIPTLEKLKKKAVKTVQEEEQLKADGKGDTQEAELL
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LWCKSHNFKREEQNFVIQNEINNLAFLTGDSKSKMSKAMQVKSGGQDQER
KKTKRRGDLYSIQTSLIVAALKKMLPIGLNMCTPGDQELISLAKSRYSHR
DTDEEVREHLRNNLHLQEKSDDPAVKWQLNLYKDVLKSEEPFNPEKTVER
VQRISAAVFHLEQVEQPLRSKKAVWHKLLSKQRKRAVVACFRMAPLYNLP
RHRSINLFLHGYQRFWIETEEYSFEEKLVQDLAKSPKVEEEEEEETEKQP
DPLHQIILYFSRNALTERSKLEDDPLYTSYSSMMAKSCQSGEDEEEDEDK
EKTFEEKEMEKQKTLYQQARLHERGAAEMVLQMISASKGEMSPMVVETLK
LGIAILNGGNAGVQQKMLDYLKEKKDAGFFQSLSGLMQSCSVLDLNAFER
QNKAEGLGMVTEEGTLIVRERGEKVLQNDEFTRDLFRFLQLLCEGHNSDF
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QMKLSQDSSQIELLKELLDLLQDMVVMLLSLLEGNVVNGTIGKQMVDTLV
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QKQYTQSEIDFLLSCAEADENDMFNYVDFVDRFHEPAKDIGFNVAVLLTN
LSEHMPNDSRLKCLLDPAESVLNYFEPYLGRIEIMGGAKKIERVYFEISE
SSRTQWEKPQVKESKRQFIFDVVNEGGEQEKMELFVNFCEDTIFEMQLAS
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RNVTDFLKRATLKNLRKQYRNVKKMTAKELVKVLFSFFWMLFVGLFQLLF
TILGGIFQILWSTVFGGGLVEGAKNIRVTKILGDMPDPTQFGIHDDTMEA
ERAEVMEPGITTELVHFIKGEKGDTDIMSDLFGLHPKKEGSLKHGPEVGL
GDLSEIIGKDEPPTLESTVQKKRKAQAAEMKAANEAEGKVESEKADMEDG

EKEDKDKEEEQAEYLWTEVTKKKKRRCGQKVEKPEAFTANFFKGLEIYQT
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SFNDEEEEEAMVFFVLQESTGYMAPTLRALAIIHTIISLVCVVGYYCLKV
PLVVFKREKEIARKLEFDGLYITEQPSEDDIKGQWDRLVINTPSFPNNYW
DKFVKRKVINKYGDLYGAERIAELLGLDKNALDFSPVEETKAEAASLVSW
LSSIDMKYHIWKLGVVFTDNSFLYLAWYTTMSVLGHYNNFFFAAHLLDIA
MGFKTLRTILSSVTHNGKQLVLTVGLLAVVVYLYTVVAFNFFRKFYNKSE
DDDEPDMKCDDMMTCYLFHMYVGVRAGGGIGDEIEDPAGDPYEMYRIVFD
ITFFFFVIVILLAIIQGLIIDAFGELRDQQEQVREDMETKCFICGIGNDY
FDTTPHGFETHTLQEHNLANYLFFLMYLINKDETEHTGQESYVWKMYQER
CWDFFPAGDCFRKQYEDQLG

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

RYR3

Full Name

Ryanodine receptor 3

Introduction

The protein encoded by this gene is a ryanodine receptor, which functions to release calcium from intracellular storage for use in many cellular processes. For example, the encoded protein is involved in skeletal muscle contraction by releasing calcium from the sarcoplasmic reticulum followed by depolarization of T-tubules. Two transcript variants encoding different isoforms have been found for this gene.

Alternative Names

RYR3; RYR-3; brain ryanodine receptor-calcium release channel; brain-type ryanodine receptor; type 3 ryanodine receptor; RyR3; HBRR; Ryanodine receptor 3

Gene ID

6263

UniProt ID

Q15413