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Product Information

MemDX™ Membrane Protein Human SCN4A (Sodium voltage-gated channel alpha subunit 4) Full Length

Cat. No.: **MPC0705K**
This product is for research use only and is not intended for diagnostic use.

This product is a 208 kDa Human SCN4A 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
SCN4A

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
208 kDa

TMD
24

Sequence
MARPSLCTLVPLGPECLRPFTRESLAAIEQRAVEEEARLQRNKQMEIEEP
ERKPRSDLEAGKNLPMIYGDPPPEVIGIPLEDLDPYYSNKKTFIVLNKGK
AIFRFSATPALYLLSPFSVVRRGAIKVLIHALFSMFIMITILTNCVFMTM
SDPPPWSKNVEYTFTGIYTFESLIKILARGFCVDDFTFLRDPWNWLDFSV
IMMAYLTEFVDLGNISALRTFRVLRALKTITVIPGLKTIVGALIQSVKKL
SDVMILTVFCLSVFALVGLQLFMGNLRQKCVRWPPPFNDTNTTWYSNDTW
YGNDTWYGNEMWYGNDSWYANDTWNSHASWATNDTFDWDAYISDEGNFYF
LEGSNDALLCGNSSDAGHCPEGYECIKTGRNPNYGYTSYDTFSWAFLALF
RLMTQDYWENLFQLTLRAAGKTYMIFFVVIIFLGSFYLINLILAVVAMAY
AEQNEATLAEDKEKEEEFQQMLEKFKKHQEELEKAKAAQALEGGEADGDP
AHGKDCNGSLDTSQGEKGAPRQSSSGDSGISDAMEELEEAHQKCPPWWYK
CAHKVLIWNCCAPWLKFKNIIHLIVMDPFVDLGITICIVLNTLFMAMEHY
PMTEHFDNVLTVGNLVFTGIFTAEMVLKLIAMDPYEYFQQGWNIFDSIIV
TLSLVELGLANVQGLSVLRSFRLLRVFKLAKSWPTLNMLIKIIGNSVGAL
GNLTLVLAIIVFIFAVVGMQLFGKSYKECVCKIALDCNLPRWHMHDFFHS
FLIVFRILCGEWIETMWDCMEVAGQAMCLTVFLMVMVIGNLVVLNLFLAL
LLSSFSADSLAASDEDGEMNNLQIAIGRIKLGIGFAKAFLLGLLHGKILS
PKDIMLSLGEADGAGEAGEAGETAPEDEKKEPPEEDLKKDNHILNHMGLA
DGPPSSLELDHLNFINNPYLTIQVPIASEESDLEMPTEEETDTFSEPEDS

KKPPQPLYDGNSSVCSTADYKPPEEDPEEQAEENPEGEQPEECFTEACVQ
RWPCLYVDISQGRGKKWWTLRRACFKIVEHNWFETFIVFMILLSSGALAF
EDIYIEQRRVIRTILEYADKVFTYIFIMEMLLKWVAYGFKVYFTNAWCWL
DFLIVDVSIISLVANWLGYSELGPIKSLRTLRALRPLRALSRFEGMRVVV
NALLGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFYYCINTTTSERFDI
SEVNNKSECESLMHTGQVRWLNVKVNYDNVGLGYLSLLQVATFKGWMDIM
YAAVDSREKEEQPQYEVNLYMYLYFVIFIIFGSFFTLNLFIGVIIDNFNQ
QKKKLGGKDIFMTEEQKKYYNAMKKLGSKKPQKPIPRPQNKIQGMVYDLV
TKQAFDITIMILICLNMVTMMVETDNQSQLKVDILYNINMIFIIIFTGEC
VLKMLALRQYYFTVGWNIFDFVVVILSIVGLALSDLIQKYFVSPTLFRVI
RLARIGRVLRLIRGAKGIRTLLFALMMSLPALFNIGLLLFLVMFIYSIFG
MSNFAYVKKESGIDDMFNFETFGNSIICLFEITTSAGWDGLLNPILNSGP
PDCDPNLENPGTSVKGDCGNPSIGICFFCSYIIISFLIVVNMYIAIILEN
FNVATEESSEPLGEDDFEMFYETWEKFDPDATQFIAYSRLSDFVDTLQEP
LRIAKPNKIKLITLDLPMVPGDKIHCLDILFALTKEVLGDSGEMDALKQT
MEEKFMAANPSKVSYEPITTTLKRKHEEVCAIKIQRAYRRHLLQRSMKQA
SYMYRHSHDGSGDDAPEKEGLLANTMSKMYGHENGNSSSPSPEEKGEAGD
AGPTMGLMPISPSDTAWPPAPPPGQTVRPGVKESLV

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

SCN4A

Full Name

Sodium voltage-gated channel alpha subunit 4

Introduction

Voltage-gated sodium channels are transmembrane glycoprotein complexes composed of a large alpha subunit with 24 transmembrane domains and one or more regulatory beta subunits. They are responsible for the generation and propagation of action potentials in neurons and muscle. This gene encodes one member of the sodium channel alpha subunit gene family. It is expressed in skeletal muscle, and mutations in this gene have been linked to several myotonia and periodic paralysis disorders.

Alternative Names

HYPP; SkM1; CMS16; HYKPP; NAC1A; HOKPP2; Nav1.4; Na(V)1.4; sodium channel protein type 4 subunit alpha; CTC-264K15.6; skeletal muscle sodium channel alpha subunit; skeletal muscle voltage-dependent sodium channel type IV alpha subunit; sodium channel protein skeletal muscle subunit alpha; sodium channel protein type IV subunit alpha;

sodium channel, voltage-gated, type IV, alpha subunit; voltage-gated sodium channel subunit alpha Nav1.4; SCN4A; Sodium voltage-gated channel alpha subunit 4

Gene ID

6329

UniProt ID

P35499

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