

Product Information

MemDX™ Membrane Protein Human SCN9A (Sodium voltage-gated channel alpha subunit

9) Full Length

Cat. No.: **MPC0710K**

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

This product is a 226.3 kDa Human SCN9A 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

SCN9A

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

226.3 kDa

TMD

24

Sequence

MAMLPPPGPQSFVHFTKQSLALIEQRIAERKSKEPKKEKKDDDEEAPKPS
SDLEAGKQLPFIYGDIPPGMVSEPLEDLPYYADKKTIVLNKGKTIFRF
NATPALYMLSPFSLRRISIKILVHSLFSMLIMCTILTNCIFMTMNNPPD
WTKNVEYTFGTIYTFESLVKILARGFCVGEFTFLRDPWNWLDFFVIVFAY
LTFVNLGNVSALRTRFVLRALKTISVIPGLKTIVGALIQSVKKLSDVMI
LTVFCLSVFALIGLQLFMGNLKHKCFRNSLENNETLESIMNTLESEEDFR
KYFYYLEGSKDALLCGFSTDSGQCPEGYTCVKIGRNPYGYTSFDTFSWA
FLALFRLMTQDYWENLYQQTTLRAAGKTYMIFFVVVIFLGSFYLINLILAV
VAMAYEEQNQANIEEAKQKELEFQQMLDRLKKEQEEAEIAAAAAEYTSI
RRSRIMGLSESSSETSLSSKSAKERRNRKKKNQKKLSSGEEKGDAEKL
SKSESEDSIRKSFHLGVEGHRAHEKRLSTPNQSPLSIRGSLFSARRSS
RTSLFSFKGRGRDIGSETEFADDEHSIFGDNESRRGSLFVPHRPQERRSS
NISQASRSPMLPVNGMKMSAVDCNGVVSLVDGRSALMLPNGQLLPEVII
DKATSDDSGTTNQIHKRRCSSYLLSEDMNDPNLRQRAMSRASILTNTV
EELEESRQKCPPWWYRFAHKFLIWNCSFYWIKFKKCIYFIVMDPFVDLAI
TICIVLNTLFMAMEHHPMTEEFKNVLAIGNLVFTGIFAAEMVLKLIAMP
YEYFQVGWNIFDSLIVTSLVELFLADVEGLSVLRSFRLLRVFKLAKSWP
TLNMLIKIIGNSVGALGNLTLVLAIVFIFAVVGMQLFGKSYKECVCKIN
DDCTLPRWHMNDFFHSFLIVFRVLCGEWIETMWDCMEVAGQAMCLIVYMM

VMVIGNLVVLNLFALLSSSFSSDNLTAIEEDPDANNLQIAVTRIKKGIN
YVKQTLREFILKAFSCKPKISREIRQAEDLNTKKENYISNHTLAEMSKGH
NFLKEKDKISGFGSSVDKHLMEDSDGQSFIHNPSLTVTVPIAPGESDLEN
MNAEELSSDSDSEYSKVRNLRSSSSSECSTVDNPLPGEGEEAEAPMNSDE
PEACFTDGCVWRFSCCQVNIESGKGKIWWNIRKTCYKIVEHSWFESFIVL
MILLSSGALAFEDIYIERKKTIKILEYADKIFTYIFILEMLLKWIAYGY
KTYFTNAWCWLDLFLVDVSLVTLVANTLGYSDLGPIKSLRTLRLRPLRA
LSRFEGMRVVVNALIGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFYEC
INTTDGSRFPASQVPNRSECFALMNVSQNVRWKNLKVNFNDVGLGYLSLL
QVATFKGWTIIMYAAVDSVNVDKQPKYEYSLYMYIYFVVFIIFGSFFTLN
LFIGVIIDNFNQKKKLGGQDIFMTEEQKKYYNAMKKLGSKKPQKPIPRP
GNKIQGCIFDLVTNQAFDISIMVLICLNMVTMMVEKEGQSQHMTEVLYWI
NVVFILFTGECVLKLISLRHYFTVGWNIFDFVVVVISIVGMFLADLIE
TYFVSPTLFRVIRLARIGRILRLVKGAKGIRTLLFALMMSLPALFNIGLL
LFLVMFIYAIFGMSNFAYVKKEDGINDMFNFETFGNSMICLFQITTSAGW
DGLLAPILNSKPPDCDPKKVHPGSSVEGDCGNPSVGIFYFVSYIIISFLV
VVNMYIAVILENFSVATEESTEPLSEDDFEMFYEVWEKFDPDATQFIEFS
KLSDFAAALDPPLLIAPKNKVQLIAMDLPMVSGDRIHCLDILFAFTKRVL
GESGEMDSLRSQMEERFMSANPSKVSYPEITTTLKRKQEDVSATVIQRAY
RRYRLRQNVKNISSIYIKDGRDDDLLNKKDMAFDNVNENSSPEKTDATS
STTSPPSYDSVTKPDKEKEYEQRTEKEDKGKDSKESKK

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

SCN9A

Full Name

Sodium voltage-gated channel alpha subunit 9

Introduction

This gene encodes a voltage-gated sodium channel which plays a significant role in nociception signaling. Mutations in this gene have been associated with primary erythralgia, channelopathy-associated insensitivity to pain, and paroxysmal extreme pain disorder.

Alternative Names

PN1; ETHA; NENA; SFNP; FEB3B; NE-NA; GEFSP7; HSN2D; Nav1.7; sodium channel protein type 9 subunit alpha; hNE-Na; neuroendocrine sodium channel; peripheral sodium channel 1; sodium channel protein type IX subunit alpha;

sodium channel, voltage-gated, type IX, alpha polypeptide; sodium channel, voltage-gated, type IX, alpha subunit; voltage-gated sodium channel alpha subunit Nav1.7; voltage-gated sodium channel subunit alpha Nav1.7; SCN9A; Sodium voltage-gated channel alpha subunit 9

Gene ID

[6335](#)

UniProt ID

[Q15858](#)