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Product Information

MemDX™ Membrane Protein Human SCN8A (Sodium voltage-gated channel alpha subunit 8) Full Length

Cat. No.: **MPC0709K**
This product is for research use only and is not intended for diagnostic use.

This product is a 225.2 kDa Human SCN8A 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
SCN8A

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
225.2 kDa

TMD
24

Sequence
MAARLLAPPGPDSFKPFTPESLANIERRIAESKLKKPPKADGSHREDDED
SKPKPNSDLEAGKSLPFIYGDIPQGLVAVPLEDFDPYYLTQKTFVVLNRG
KTLFRFSATPALYILSPFNLIRRIAIKILIHSVFSMIIMCTILTNCVFMT
FSNPPDWSKNVEYTFTGIYTFESLVKIIARGFCIDGFTFLRDPWNWLDFS
VIMMAYITEFVNLGNVSALRTFRVLRALKTISVIPGLKTIVGALIQSVKK
LSDVMILTVFCLSVFALIGLQLFMGNLRNKCVVWPINFNESYLENGTKGF
DWEEYINNKTNFYTVPGMLEPLLCGNSSDAGQCPEGYQCMKAGRNPNYGY
TSFDTFSWAFLALFRLMTQDYWENLYQLTLRAAGKTYMIFFVLVIFVGSF
YLVNLILAVVAMAYEEQNQATLEEAEQKEAEFKAMLEQLKKQQEEAQAAA
MATSAGTVSEDAIEEEGEEGGGSPRSSSEISKLSSKSAKERRNRRKKRKQ
KELSEGEEKGDPEKVFKSESEDGMRRKAFRLPDNRIGRKFSIMNQSLLSI
PGSPFLSRHNSKSSIFSFRGPGRFRDPGSENEFADDEHSTVEESEGRRDS
LFIPIRARERRSSYSGYSGYSQGSRSSRIFPSLRRSVKRNSTVDCNGVVS
LIGGPGSHIGGRLLPEATTEVEIKKKGPGSLLVSMDQLASYGRKDRINSI
MSVVTNTLVEELEESQRKCPPCWYKFANTFLIWECHPYWIKLKEIVNLIV
MDPFVDLAITICIVLNTLFMAMEHHPMTPQFEHVLAVGNLVFTGIFTAEM
FLKLIAMDPYYYFQEGWNIFDGFIVSLSLMELSLADVEGLSVLRSFRLLR
VFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAIIVFIFAVVGMQLFGKS
YKECVCKINQDCELPRWHMHDFFHSFLIVFRVLCGEWIETMWDCMEVAGQ

AMCLIVFMMVMVIGNLVVLNLFLALLLSSFSADNLAATDDDGEMNNLQIS
VIRIKKGVAWTKLKVHAFMQAHFKQREADEVKPLDELYEKKANCIANHTG
ADIHRNGDFQKNGNGTTSGIGSSVEKYIIDEDHMSFINNPNLTVRVPIAV
GESDFENLNTEDVSSESDPEGSKDKLDDTSSSEGSTIDIKPEVEEVPVEQ
PEEYLDPDACFTEGCVQRFKCCQVNIEEGLGKSWWILRKTCFLIVEHNWF
ETFIIFMILLSSGALAFEDIYIEQRKTIRTILEYADKVFTYIFILEMLLK
WTAYGFVKFFTNAWCWLDFLIVAVSLVSLIANALGYSELGAIKSLRTLRA
LRPLRALSRFEGMRVVVNALVGAIPSIMNVLLVCLIFWLIFSIMGVNLFA
GKYHYCFNETSEIRFEIEDVNNKTECEKLMEGNNTEIRWKNVKINFDNVG
AGYLALLQVATFKGWMDIMYAAVDSRKPDEQPKYEDNIYMYIYFVIFIIF
GSFFTLNLFIGVIIDNFNQQKKKFGGQDIFMTEEQKKYYNAMKKLGSKKP
QKPIPRPLNKIQGIVFDFVTQQAFDIVIMMLICLNMVTMMVETDTQSKQM
ENILYWINLVFVIFFTCECVLKMFALRHYYFTIGWNIFDFVVVILSIVGM
FLADIIEKYFVSPTLFRVIRLARIGRILRLIKGAKGIRTLLFALMMSLPA
LFNIGLLLFLVMFIFSIFGMSNFAYVKHEAGIDDMFNFETFGNSMICLFQ
ITTSAGWDGLLLPILNRPPDCSLDKEHPGSGFKGDCGNPSVGIFFFVSYI
IISFLIVVNMYIAIILENFSVATEESADPLSEDDFETFYEIWEKFDPDAT
QFIEYCKLADFADALEHPLRVPKPNTIELIAMDLPMVSGDRIHCLDILFA
FTKRVLGDSGELDILRQQMEERFVASNPSKVSYEPITTTLRRKQEEVSAV
VLQRAYRGHLARRGFICKKTTSNKLENGGTHREKKESTPSTASLPSYDSV
TKPEKEKQQRAEEGRRERAKRQKEVRESKC

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

SCN8A

Full Name

Sodium voltage-gated channel alpha subunit 8

Introduction

This gene encodes a member of the sodium channel alpha subunit gene family. The encoded protein forms the ion pore region of the voltage-gated sodium channel. This protein is essential for the rapid membrane depolarization that occurs during the formation of the action potential in excitable neurons. Mutations in this gene are associated with cognitive disability, pancerebellar atrophy and ataxia. Alternate splicing results in multiple transcript variants.

Alternative Names

MED; PN4; CIAT; BFIS5; DEE13; NaCh6; CERIII; EIEE13; MYOCL2; Nav1.6; sodium channel protein type 8 subunit

alpha; hNa6/Scn8a voltage-gated sodium channel; sodium channel, voltage gated, type VIII, alpha subunit; voltage-gated sodium channel subunit alpha Nav1.6; voltage-gated sodium channel type VIII alpha protein; SCN8A; Sodium voltage-gated channel alpha subunit 8

Gene ID

6334

UniProt ID

Q9UQD0

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