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# Product Information

## MemDX™ Membrane Protein Human SCN11A (Sodium voltage-gated channel alpha subunit 11) Full Length

Cat. No.: **MPC0698K**
This product is for research use only and is not intended for diagnostic use.

This product is a 204.9 kDa Human SCN11A 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**
SCN11A

**Protein Length**
Full length

**Protein Class**
Transporter; Ion channel

**Molecular Weight**
204.9 kDa

**TMD**
24

**Sequence**
MDDRCYPVIFPDERNFRPFTSDSLAAIEKRIAIQKEKKKSKDQTGEVPQP
RPQLDLKASRKLPKLYGDIPRELIGKPLEDLDPFYRNHKTFMVLNRKRTI
YRFSAKHALFIFGPFNSIRSLAIRVSVHSLFSMFIIGTVIINCVFMATGP
AKNSNSNNTDIAECVFTGIYIFEALIKILARGFILDEFSFLRDPWNWLDS
IVIGIAIVSYIPGITIKLLPLRTFRVFRALKAISVVSRLKVIVGALLRSV
KKLVNVIILTFFCLSIFALVGQQLFMGSLNLKCISRDCKNISNPEAYDHC
FEKKENSPEFKMCGIWMGNSACSIQYECKHTKINPDYNYTNFDNFGWSFL
AMFRLMTQDSWEKLYQQTLRTTGLYSVFFFIVVIFLGSFYLINLTLAVVT
MAYEEQNKNVAAEIEAKEKMFQEAQQLLKEEKEALVAMGIDRSSLTSLET
SYFTPKKRKLFGNKKRKSFFLRESGKDQPPGSDSDEDCQKKPQLLEQTKR
LSQNLSLDHFDEHGDPLQRQRALSAVSILTITMKEQEKSQEPCLPCGENL
ASKYLVWNCCPQWLCVKKVLRTVMTDPFTELAITICIIINTVFLAMEHHK
MEASFEKMLNIGNLVFTSIFIAEMCLKIIALDPYHYFRRGWNIFDSIVAL
LSFADVMNCVLQKRSWPFLRSFRVLRVFKLAKSWPTLNTLIKIIGNSVGA
LGSLTVVLVIVIFIFSVVGMQLFGRSFNSQKSPKLCNPTGPTVSCLRHWH
MGDFWHSFLVVFRILCGEWIENMWECMQEANASSSLCVIVFILITVIGKL
VVLNLFIALLLNSFSNEERNGNLEGEARKTKVQLALDRFRRAFCFVRHTL
EHFCHKWCRKQNLPQQKEVAGGCAAQSKDIIPLVMEMKRGSETQEELGIL
TSVPKTLGVRHDWTWLAPLAEEEDDVEFSGEDNAQRITQPEPEQQAYELH


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QENKKPTSQRVQSVEIDMFSEDEPHLTIQDPRKKSDVTSILSECSTIDLQ
DGFGWLPEMVPKKQPERCLPKGFGCCFPCCSVDKRKPPWVIWWNLRKTCY
QIVKHSWFESFIIFVILLSSGALIFEDVHLENQPKIQELLNCTDIIFTHI
FILEMVLKWVAFGFGKYFTSAWCCLDFIIVIVSVTTLINLMELKSFRTLR
ALRPLRALSQFEGMKVVVNALIGAIPAILNVLLVCLIFWLVFCILGVYFF
SGKFGKCINGTDSVINYTIITNKSQCESGNFSWINQKVNFDNVGNAYLAL
LQVATFKGWMDIIYAAVDSTEKEQQPEFESNSLGYIYFVVFIIFGSFFTL
NLFIGVIIDNFNQQQKKLGGQDIFMTEEQKKYYNAMKKLGSKKPQKPIPR
PLNKCQGLVFDIVTSQIFDIIIISLIILNMISMMAESYNQPKAMKSILDH
LNWVFVVIFTLECLIKIFALRQYYFTNGWNLFDCVVVLLSIVSTMISTLE
NQEHIPFPPTLFRIVRLARIGRILRLVRAARGIRTLLFALMMSLPSLFNI
GLLLFLIMFIYAILGMNWFSKVNPESGIDDIFNFKTFASSMLCLFQISTS
AGWDSLLSPMLRSKESCNSSSENCHLPGIATSYFVSYIIISFLIVVNMYI
AVILENFNTATEESEDPLGEDDFDIFYEVWEKFDPEATQFIKYSALSDFA
DALPEPLRVAKPNKYQFLVMDLPMVSEDRLHCMDILFAFTARVLGGSDGL
DSMKAMMEEKFMEANPLKKLYEPIVTTTKRKEEERGAAIIQKAFRKYMMK
VTKGDQGDQNDLENGPHSPLQTLCNGDLSSFGVAKGKVHCD

## 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

SCN11A

### Full Name

Sodium voltage-gated channel alpha subunit 11

### 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, and is highly expressed in nociceptive neurons of dorsal root ganglia and trigeminal ganglia. It mediates brain-derived neurotrophic factor-evoked membrane depolarization and is a major effector of peripheral inflammatory pain hypersensitivity. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy type VII and familial episodic pain syndrome-3. Alternative splicing results in multiple transcript variants.

### Alternative Names

NaN; PN5; FEPS3; HSAN7; SNS-2; NAV1.9; SCN12A; sodium channel protein type 11 subunit alpha; peripheral nerve sodium channel 5; sensory neuron sodium channel 2; sodium channel protein type XI subunit alpha; sodium channel,


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voltage-gated, type XI, alpha polypeptide; sodium channel, voltage-gated, type XI, alpha subunit; sodium channel, voltage-gated, type XII, alpha polypeptide; voltage-gated sodium channel subunit alpha Nav1.9; SCN11A; Sodium voltage-gated channel alpha subunit 11

**Gene ID**

11280

**UniProt ID**

Q9UI33

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