

Product Information

MemDX™ Membrane Protein Human SCN3A (Sodium voltage-gated channel alpha subunit

3) Full Length

Cat. No.: **MPC0703K**

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

This product is a 226.2 kDa Human SCN3A 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

SCN3A

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

226.2 kDa

TMD

24

Sequence

MAQALLVPPGPESFRLFTRESLAAIEKRAAEKAKKPKKEQDNDNENKPK
PNSDLEAGKNLPFIYGDIPPEMVSEPLEDLPYYINKKTFIVMNGKKAIF
RFSATSALYILTPLNPVRKIAIKILVHSLFSMLIMCTILTNCVFM TLSNP
PDWTKNVEYTFGTIYTFESLIKILARGFCLEDFTFLRDPWNWLD FSVIVM
AYVTEFVSLGNVSALRTFRVLRALKTISVIPGLKTIVGALIQSVKKLSDV
MILTVFCLSVFALIGLQLFMGNLRNKCLQWPPSDSAFETNTTSYFNGTMD
SNGTFVNVTMSTFNWKDYIGDDSHFYVLDGQKDPLLCGNGSDAGQCPEGY
ICVKAGRNPNYGYTSFDTFSWAFSLFRLMTQDYWENLYQLTLRAAGKTY
MIFFVLVIFLGSFYLVNLILAVVAMAYEEQNQATLEEAQKEAEFQQMLE
QLKKQEEAQAVAAASAASRDFSGIGGLGELLESSSEASKLSSKSAKEWR
NRRKKRRQREHLEGNNKGERDSFPKSESEDSVKRSSF LFSMDGNRLTSDK
KFCSPHQSLLSIRGSLFSPPRRNSKTSIFSFRGRAKDVGSENFADDEHST
FEDSESRRDSLFPVPHRHGERRNSNVSQASMSSRMVPGLPANGKMHSTVDC
NGVSVLVGGPSALTSP TGQLPPEGTTTETEVKRRLSSYQISMEMLEDSS
GRQRAVSIASILTNTMEELEESRQKCPPCWYRFANVFLIWDCCDAWLKVK
HLVNLIVMDPFVDLAI TICIVLNTLFMAMEHYPMTEQFSSVLTG NLVFT
GIFTAEMVLKIIAMDPYFFYFQEGWNIFDGIIVSLSLMELGLSNVEGLSVL
RSFRLLRVFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAIVFIFAVVG
MQLFGKSYKECVCKINDDCTLP RWHMNDFFHSFLIVFRVLCGEWIETMWD

CMEVAGQTMCLIVFMLVMVIGNLVVLNLFALLSSSFSSDNLAATDDDDNE
MNNLQIAVGRMQKGIDYVKNKMRECFQKAFFRKPKEIHEGNKIDSCMS
NNTGIEISKELNYLRDGNNGTTSVGTGSSVEKYVIDENDYMSFINNPSLT
VTVPIAVGESDFENLNTSEESSESELESKEKLNATSSSEGSTVDVVLPR
EGEQAETEPEEDLKPEACFTEGCIKKFPFCQVSTEEGKGKIWWNLKTCY
SIVEHNWFETFIVFMILLSSGALAFEDIYIEQRKTIKTMLEYADKVFTYI
FILEMLLKWVAYGFQTYFTNAWCWLDLIVDVSLVSLVANALGYSELGAI
KSLRTLRLRPLRLSRFEGMRVVVNALVGAIPSIMNVLLVCLIFWLIFS
IMGVNLFAGKFYHCVNMTTGNMFDISDVNNLSDCQALGKQARWKNVKVNF
DNVGAGYLALLQVATFKGWMDIMYAAVDSRDVKLQPVYEENLYMYLYFVI
FIIFGSFFTLNLFIVIDNFNQQKKKFGGQDIFMTEEQKKYYNAMKKLG
SKKPQKPIPRPANKFQGMVDFVTRQVFDISIMILICLNMTMMVETDDQ
GKYMTLVLSRINLVFIVLFTGEFVLKLVSLRHYYFTIGWNIFDFVVVILS
IVGMFLAEMIEKYFVSPTLFRVIRLARIGRILRLIKGAKGIRTLLFALMM
SLPALFNIGLLLFLVMFIYAIFGMSNFAYVKKEAGIDDMFNFETFGNSMI
CLFQITTSAGWDGLLAPILNSAPPDCDPDTIHPGSSVKGDCGNPSVGIF
FVSYIIISFLVVVNMYIAVILENFSVATEESAEPLEDDFEMFYEVWEKF
DPDATQFIEFSKLSDFAAALDPPLLIAPKNKVQLIAMDLPMVSGDRIHCL
DILFAFTKRVLGESGEMDALRIQMEDRFMASNPSKVSYPEITTTTLKRKQE
EVSAAIIQRNFRCYLLKQRLKNISSNYNKEAIKGRIDLPIKQDMIIDKLN
GNSTPEKTDGSSSTTSPPSYDSVTKPDKEKFEKDKPEKESKGKEVRENQK

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

SCN3A

Full Name

Sodium voltage-gated channel alpha subunit 3

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 found in a cluster of five alpha subunit genes on chromosome 2. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

NAC3; DEE62; EIEE62; FFEVF4; Nav1.3; sodium channel protein type 3 subunit alpha; brain III voltage-gated sodium channel; sodium channel protein brain III subunit alpha; sodium channel protein type III subunit alpha; sodium channel, voltage gated, type III alpha subunit; sodium channel, voltage-gated, type III, alpha polypeptide; voltage-gated sodium channel subtype III; voltage-gated sodium channel subunit alpha Nav1.3; SCN3A; Sodium voltage-gated channel alpha subunit 3

Gene ID

[6328](#)

UniProt ID

[Q9NY46](#)