SCN3B cDNA Clone – Sodium Channel, Voltage-Gated, Type III, Beta (Human)

PRODUCT OVERVIEW

Product Name	SCN3B, cDNA Clone
Full Product Name	SCN3B cDNA Clone
Product Gene Name	SCN3B cdna clone
Sequence	atgcctgcct tcaatagatt gtttcccctg gcttctctcg tgcttatcta ctgggtcagt gtctgcttcc ctgtgtgtgt ggaagtgccc tcggagacgg aggccgtgca gggcaacccc atgaagctgc gctgcatctc ctgcatgaag agagaggagg tggaggccac cacggtggtg gaatggttct acaggcccga gggcggtaaa gatttcctta tttacgagta tcggaatggc caccaggagg tggagagccc ctttcagggg cgcctgcagt ggaatggcag caaggacctg caggacgtgt ccatcactgt gctcaacgtc actctgaacg actctggcct ctacacctgc aatgtgtccc gggagtttga gtttgaggcg catcggccct ttgtgaagac gacgcggctg atccccctaa gagtcaccga ggaggctgga gaggacttca cctctgtggt ctcagaaatc atgatgtaca tccttctggt cttcctcacc ttgtggctgc tcatcgagat gatatattgc tacagaaagg tctcaaaagc cgaagaggca gcccaagaaa acgcgtctga ctaccttgcc atcccatctg agaacaagga gaactctgcg gtaccagtgg aggaatag
Molecular Weight	24,702 Da
OMIM	608214
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SCN3B cdna clone	MBS1274268 is a cDNA clone targeting SCN3B.
Other Notes	Small volumes of SCN3B cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCN3B. It may not necessarily be applicable to this product.

NCBI GI #	109658543
NCBI GeneID	55800
NCBI Accession #	BC117282
UniProt Secondary Accession #	Q17RL3; Q9ULR2; A5H1I5
UniProt Related Accession #	Q9NY72
NCBI Official Full Name	Homo sapiens sodium channel, voltage-gated, type III, beta, mRNA
NCBI Official Synonym Full Names	sodium voltage-gated channel beta subunit 3
NCBI Official Symbol	SCN3B
NCBI Official Synonym Symbols	SCNB3; ATFB16; BRGDA7; HSA243396
UniProt Protein Name	Sodium channel subunit beta-3
Protein Family	Sodium channel
UniProt Gene Name	SCN3B
UniProt Synonym Gene Names	KIAA1158

UniProt Entry Name	SCN3B_HUMAN
NCBI Protein Information	sodium channel subunit beta-3
NCBI Summary for SCN3B	Voltage-gated sodium channels are transmembrane glycoprotein complexes composed of a large alpha subunit 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 beta subunit gene family, and influences the inactivation kinetics of the sodium channel. Two alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for SCN3B	SCN3B: Modulates channel gating kinetics. Causes unique persistent sodium currents. Inactivates the sodium channel opening more slowly than the subunit beta-1. Its association with neurofascin may target the sodium channels to the nodes of Ranvier of developing axons and retain these channels at the nodes in mature myelinated axons. Defects in SCN3B are the cause of Brugada syndrome type 7 (BRGDA7). A tachyarrhythmia characterized by right bundle branch block and ST segment elevation on an electrocardiogram (ECG). It can cause the ventricles to beat so fast that the blood is prevented from circulating efficiently in the body. When this situation occurs (called ventricular fibrillation), the individual will faint and may die in a few minutes if the heart is not reset. Belongs to the sodium channel auxiliary subunit SCN3B (TC 8.A.17) family. Protein type: Membrane protein, integral; Channel, sodium Chromosomal Location of Human Ortholog: 11q23.3 Cellular Component: plasma membrane; voltage-gated sodium channel complex; Z disc Molecular Function: sodium channel regulator activity Biological Process: cardiac muscle contraction; membrane depolarization; positive regulation of heart rate Disease: Brugada Syndrome 7
Research Articles on SCN3B	**1.** Contribution of Cardiac Sodium Channel beta-Subunit Variants to Brugada Syndrome.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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