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Product datasheet for SC122161

Nav1.5 (SCN5A) (NM_000335) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nav1.5 (SCN5A) (NM_000335) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nav1.5
Synonyms:	CDCD2; CMD1E; CMPD2; HB1; HB2; HBBD; HH1; ICCD; IVF; LQT3; Nav1.5; PFHB1; SSS1; VF1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_000335 edited
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000335 unedited
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000335 unedited
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TCGCCGGCAATGCCCCCTTCAGCACTGCCAN

Restriction Sites: Please inquire

ACCN: NM_000335

Insert Size: 8500 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: The ORF of this clone has been fully sequenced and found to contain one SNP compared with the reference NM_000335.3.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_000335.3, NP_000326.2

RefSeq Size: 8526 bp

RefSeq ORF: 6048 bp

Locus ID: 6331

UniProt ID: Q14524

Cytogenetics: 3p22.2

Protein Families: Druggable Genome, Ion Channels: Sodium, Transmembrane

Gene Summary: The protein encoded by this gene is an integral membrane protein and tetrodotoxin-resistant voltage-gated sodium channel subunit. This protein is found primarily in cardiac muscle and is responsible for the initial upstroke of the action potential in an electrocardiogram. Defects in this gene are a cause of long QT syndrome type 3 (LQT3), an autosomal dominant cardiac disease. Alternative splicing results in several transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) uses a different acceptor splice site at one of the coding exons, 3 nt downstream of that used by transcript variant 1. This results in an isoform (b) shorter by just a single aa, compared to isoform a.