

## Product datasheet for **RC214689L1V**

### Nav1.5 (SCN5A) (NM\_000335) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Nav1.5 (SCN5A) (NM_000335) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SCN5A
Synonyms:	CDCD2; CMD1E; CMPD2; HB1; HB2; HBBB; HH1; ICCD; IVF; LQT3; Nav1.5; PFHB1; SSS1; VF1
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_000335
ORF Size:	6045 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214689).
OTI Disclaimer:	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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_000335.3</a>
RefSeq Size:	8526 bp
RefSeq ORF:	6048 bp
Locus ID:	6331
UniProt ID:	<a href="#">Q14524</a>
Cytogenetics:	3p22.2
Protein Families:	Druggable Genome, Ion Channels: Sodium, Transmembrane
MW:	226.6 kDa



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**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]

**Product images:**

[RC214689L1] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC214689L1V particle to overexpress human SCN5A-Myc-DDK fusion protein.