

## Product datasheet for **SC207380**

### SCN7A (NM\_002976) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	SCN7A (NM_002976) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	SCN7A
Synonyms:	NaG; Nav2.1; Nav2.2; SCN6A
ACCN:	NM_002976
Insert Size:	2000 bp



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**Insert Sequence:**

>SC207380 3'UTR clone of NM\_002976

The sequence shown below is from the reference sequence of NM\_002976. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
GAAAAGTCACCTATTCAAAGCCAGATCTAATACCACTTACCACCTCTTTTCATATTTCTTCACATATCT
GAAAAATGTTGAAAGCCTAAGCCAGGAATAAAAGAAAAGTAGAGATAATAATCAGTTCCTTACAACCGA
TGGTAATTAAGCTTGATTACACAAGACTTCATGCCAAATTCACCTTTTAGCATTATATCTAACAAATCA
AGAGAATCCTTAATATTGCTGCAGTGAGTTAAAGTGGGTAAAGTGGCCATTTGACAATCTCATATTT
GTTTTCTCTACATGGCTTATATGATGTGTGCCTTCTAGGGAATGAAGGGAAGTGGTGATAGAGATCAGC
AGCAGCAGGGGCTTTCTTTATATTTTATGTATAATTTAATGGGCTTTAAGTCACCACTATTAAGACTT
ACAAATAAGCAAATACTTCTGATGTGGGATGGTGAATGCTAATGGCCATTAATCATAAACTTGCC
TAGACAAAAGCCAATTGGAAGAAGGAGAGAGCAGTTCCTTAGAAAAGTGCCTTTGAGATCAACCTCAGA
GATTCCTGGGCTGATTAAGTGCATTTGAAAAGATTGGTTGAAGCTCTGTGTTATTTTTGTATGTT
CTTGTTTTCATTTGGAAGTGGGAATGAATAGGATTTTCATTGTGCTCAAGCTCCTGGTTTCTCATCTCG
GATAGTTTACCTAAGCTCTGGCTCTTAAGCAGGACAGATTTCGTAACAAGAAGCATAAAGGAGAGGT
ATAGCCTTTTTTTTTTTTTTTTTTTTTCATTTCTCTCATTTACACCTATTTTTTAAAAAGTATACAT
TTACTAAAATGATGTAATAAATAACATGTTAATAGACTCAAGCTTACCTTATGAAATGATGATTTTT
TACCAGTTATTTCTAATGTAACATTGAATATAAGATCTGACAAATGTATGTTTAAACATGAATTAGA
AGAGTTGAGAAGTACCATTATGTATAGGATTCTCATAGTGTCTTGGCCCTTAATTGGAAGTTGTGGC
AACTTTAAAGTACTTTTTACTGTATGTTATAATCTTTATAACTTAGAGAGACAATGGTCACTCAA
CTATGAGAAGTATGAATTAGGAGATAAAAGTTTTAAATTTGTTGTTTTATAACAGTATGTACAAGTT
AGTTTTCCCTTATATATTTACGTTTTCAAGTTTTTAATCTCATATACATCCACTCTATAAAAT
GTTTTATATTCAAAGAACTGTAAATCCTAAACATTAGTTTTCACTATTGAAATGTTTTTAAAGATA
GGCATAAATAGTTGCTCTTAGACTTATTCATACAAATATAGTCATTTACTTCTATGTAGTTTGAGATTC
TGAGAGTTATTCCAACTTATGAAGATTGATTTCAATGTGCTGCTAAGTCTAAAAGATTCAGAAAAGA
AAATTTATATATTATTGATTTAAATATCATCCTTTAAATATGTTGTATAACATTCATATAGTTTATGT
ATCAGTGATTGATTTTTATTCTGAATGCATGATCTCAAGCCTTAACTACTATAATCTTTTTCTGCCCT
CAGAAATGAATAACCTAACCAAGATGCCTTTAGGGGATGCCCTAAGTAAATGTAATTTAGATTTAG
GGTTTTTTTTTTTTCTCTAAGTGTCTCCCTTTCTCTCCTGCTCCTCATGTTATGGAGAC
CAGTGAGGAACAGTGTTAACTTGGTGACAATGTGACAGCTGGTGCTTTATCTAAGCTCCGTTTTCTAT
TTCTTGGGAATGCTTTATTGTGGAACTGCTTCAGATACTTAAATGAAATCATAACTTGCTTCTGTA
TTGCGTAAAGACAACAACTGATTTTAGTTTGAAGTTTATCTTTACTTGTAACCTGTTTGCCAG
TTACCTCCGAAAGCTGTGTAAGAGTTATTTTAAACAAAGTCTTAAACATATATGTTACTTTTTAGA
ACGCGT AAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCACCGCCGCTTCTATGAAAGG
    
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**Restriction Sites:**

SgfI-MluI

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:**

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:**

[NM\\_002976.4](#)

**Summary:**

This gene encodes one of the many voltage-gated sodium channel proteins. For proper functioning of neurons and muscles during action potentials, voltage-gated sodium channels direct sodium ion diffusion for membrane depolarization. This sodium channel protein has some atypical characteristics; the similarity between the human and mouse proteins is lower compared to other orthologous sodium channel pairs. Also, the S4 segments, which sense voltage changes, have fewer positive charged residues than in other sodium channels; domain 4 has fewer arginine and lysine residues compared to other sodium channel proteins. Several alternatively spliced transcript variants exist, but the full-length nature of all of them remain unknown. [provided by RefSeq, Dec 2011]

**Locus ID:**

6332

**MW:**

78.8