

Product datasheet for **RR214460**

Scn5a (NM_013125) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Scn5a (NM_013125) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Scn5a
Synonyms: Nav1.5; SCAL
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214460 representing NM_013125
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGGATCGCC

ATGGCAAACCTCCTGTTACCTCGGGGCACCAGCAGCTTCCGTAGGTTACCCGGGAGTCACTGGCGGCCA
TCGAGAAGCGAATGGCTGAAAAGCAAGCCCAGGAGGTTTCGGCCACCTCACAGGAGAGCCGTGAGGGCCT
GCAGGAGGAGGAGGCTCCCCGGCCCCAGCTGGACCTACAGGCCTCCAAAAAGCTGCCAGATCTCTATGGC
AACCCACCCCGAGAGCTCATCGGGGAGCCCTGGAAGACCTGGACCCTTCTATAGTACCCAGAAGACCT
TCATCGTGCTGAATAAGGGCAAAACCATCTTCCGGTTCAGTGCCACCAATGCCTTGATGTCCTCAGCCC
CTTCCACCCCGTGCGCCGAGCGGCCGTGAAGATCCTGGTACACTCGCTCTTAGCATGCTCATATGTGC
ACCATCCTGACCAACTGCGTGTTTCATGGCCAGCAGACCCCTCCGCCTGGACCAAAATGTTGAGTACA
CCTTCACTGCCATCTACACCTTTGAGTCTCTGGTCAAGATTCTAGCTCGAGGCTTCTGCCTGCATGCATT
CACCTTCCTTCGGGACCCGTGGAACCTGGCTAGACTTCAGTGTGATCGTCATGGCATAACAACCTGAATTT
GTGGACCTGGGCAATGTCTCAGCCTTACGCACCTCCGAGTCTCCGGGCCCTGAAAACCTATATCGGTCA
TTTCAGGCCTGAAGACCATCGTGGGAGCCCTAATCCAGTCTGTGAAGAACTGGCCGATGTGATGGTCCCT
CACTGTCTTCTGCCTCAGTGTCTTTGCCCTCATTGGCCTGCAGCTTTCATGGGCAACCTGAGGCACAAG
TGTGTGCGTAACCTCACCGAGCTCAATGGCACCAATGGTTCGGTGGAGGCCGACGGCCTAGTCTGGAAC
CCCTGGACGTCTACCTCAATGACCCAGCCAATTACCTGCTCAAGAATGGCACCACGGATGTGTTACTATG
TGGGAACAGCTCTGATGCCGGGACATGCCCTGAGGGCTATCGGTGCCTGAAGGCAGGTGAGAACCCAGAC
CACGGTTACACCAGCTTCGACTCCTTCGCCTGGGCCTTCTTGCCTCTTCCGCCTGATGACACAGGACT
GCTGGGAACGCCTATACCAGCAGACCCCTGAGGTCCGAGGAAAGATCTACATGATCTTCTCATGCTCGT
CATCTTTCTGGGCTCCTTCTACCTGGTGAACCTTGATCCTGGCTGTGGTGGCCATGGCCTACGAGGAGCAA
AACCAAGCCACCATCGCCGAGACGGAAGAGAAGGAGAAGCGCTTCCAGGAGGCCATGGAGATGCTCAAGA
AGGAACACGAGGCTCTACCATCAGGGGTGGATACCGTGTCCCGTAGCTCTCTGGAGATGTCTCCTTT
GGCCCCAGTAACCAACCATGAGAGAAAAGAGCAAAAGGAGGAAACGACTATCTTCCGGGACAGAGGATGGT
GGGGATGACAGGCTCCCCAAGTCGGACTCAGAAGATGGTCCCAGAGCATTGAATCAGCTCAGCCTCACCC



[View online >](#)

ATGGGCTCAGCCGACATCCATGAGGCCCCGCTCGAGCCGAGGGAGCATTTTCACGTTCCGAAGACGGGA
CCAAGGCTCTGAGGCGGACTTCGCAGATGACGAGAACAGCACTGCGGGGAGAGCGAGAGCCACCGCACA
TCGCTGCTGGTACCCTGGCCCCTGCGCCATCCCAGCGCCAAGGACAGCCCGGCCCTGGAGCCTCAGCTC
CCGTTACGTTCTCAATGGCAAAGGAACAGCACCGTGGACTGCAATGGGTGGTTTCCTTGCTGGGGG
AGGTGACGCAGAGGCCACCTCCCCAGGGAGCTACCTTCTCGCCCTATGGTGTGGACCGACCCCGAGC
ACGACCACTCCGTGAGAGGAGCCCGTGGGCCCATGCTGACACCTCAGGCTCCGTGTGCAGATGGTT
TTGAGGAGCCCGGAGCACGGCAACGGGCACTCAGCGCTGCAGTGTCTCACCAGCGCCCTGGAAGAGTT
GGAGGAGTCCCATCGGAAGTGTCCACCATGCTGGAACCGCTTTGCCAGCACTACCTCATCTGGGAGTGC
TGTCACCTCTGGATGTCCATCAAGCAGAAGGTGAAGTTTGTGGTATGGACCCATTTGCCAGCTACTA
TCACCATGTGCATCGTGTCAATACGCTTTCATGGCTCTGGAGCATTACAACATGACGGCAGAGTTTGA
GGAGATGCTGCAGGTGCGAAACCTGGTCTTACGGGAATCTTACAGCGGAGATGACCTTCAAGATCATC
GCCCTTGACCCCTACTACTACTTCCAGCAGGGCTGGAATATCTTGCAGCATCATCGTATCCTCAGTC
TCATGGAGCTGGGGCTGTCCGCATGGCAACTGTCTGTGTACGTTTCTTCCGCTGTGCGGGTCTT
CAAGCTGGCCAAGTCTGGCCACCCTGAACACGCTCATCAAGATCATCGAAACTCCGTGGGCGCCCTG
GGGAACCTGACCCTGGTGTGGCCATCATCGTCTTTCATCTTCGCGTGGTGGCATGCAGCTCTTCGGCA
AGAACTACTCAGAACTGAGGCACCGCATCAGCGACTCCGCGCTGTGCCCGCTGGCACATGATGGACTT
TTCCACGCTTCTCATCATCTTCCGCATCCTCTGTGGGGAGTGGATCGAGACCATGTGGGACTGCATG
GAGGTGTCTGGGAGTGCCTGTGCTTGGTCTTCTGCTGTGCATGGTCATTGGCAACCTTGTGGTCC
TGAATCTCTTCTGGCCTTGTGCTCAGCTCCTCAGCGCAGACAACCTCACAGCCCTGACGAGGATGG
GGAGATGAACAACCTCCAGCTGGCCCTGGCTCGCATCCAGAGGGGCTGCGCTTTGTCAAGCGGACCACC
TGGGACTTCTGCTGCGGGATCCTGCGGCGGCGACCTAAGAAGCCCGGGCTTTGCCACCCACAGCCAGC
TGCCCAGCTGTATCACCGCCCCAGGTCCCACCACCCCGAGAGGTGGAGAAGGTGCCCCAGCCCGCAA
GGAAACGATTTCGAGGAGGACAAGCGACCCGGCCAGGGCACCCCTGGGATTTCGAGCTGTGTGTGTG
CCCATCGCCGTGGCTGAGTCAGACACTGAAGACCAGGAAGAGGATGAAGAGAACAGCCTTGGCACAGAGG
AAGAGTCCAGCAAACAGGAATCCCAAGTTGTGTCTGGTGGCCACGAGCCCTACCAGGAGCCAGGGCCTG
GAGCCAGGTGTCAGAGACCACGTCCTCTGAAGCTGGGGCCAGTACATCTCAGGCAGACTGGCAGCAAGAG
CAGAAAACGGAGCCCGAGCCCGGGGTGCGGTGAGACCCTGAGGACAGTTACTCCGAGGGCAGCACAG
CTGACATGACCAACACCGCCGACCTCCTGGAGCAAATCCCAGACCTTGGTGGAGCAGTCAAGGACCCAGA
GGACTGCTTACTGAAGGCTGCGTCCGACGCTGTCCCTGCTGCATGGTAGACACAACCCAGTCCCAGGG
AAGGTCTGGTGGCGATTGCGCAAGACCTGCTACCGCATCGTGGAGCACAGCTGGTTCGAGACTTTCATCA
TCTTCATGATCCTGCTCAGCAGTGGAGCGCTGGCCTTCGAGGACATCTACCTGGAGGAGCGGAAGCCAT
CAAGGTTCTGCTGGAGTACGCGGACAAGATGTTACCTACGCTTTGTGTTGGAGATGCTGCTCAAGTGG
GTGGCCTACGGCTTCAAGAAGTACTTACCAACGCTGGTGTGGCTGGACTTCTGATTGTGGAGCTCT
CGCTGGTCAGCCTCGTGGCAAACACCTTAGGCTTCGCGGAAATGGGTCCCATCAAGTCACTGAGGACACT
GCGTGCATTCGACCCCTGAGGGCCTTGTGCGAGATTTGAGGGCATGCGGGTGGTGGTCAATGCGCTGGT
GGCGCCATCCCTCCATCATGAACGTCCTCCTGCTGCTCATCTTCTGGCTCATCTTCCAGCATCATGG
GCGTGAACCTCTTCGCGGGAAGTTCGGTAGGTGCATCAACCAGACAGAAGGGGACCTGCCTCTGAACTA
CACCATCGTGAACAACAAGAGTGAAGTGCAGTCTTCAACGTGACCGGAGAGTTGTAAGTGGACCAAGGTG
AAGTCAACTTTGACAACGTGGGAGCCGGTACCTGGCCCTCTGCAGGTGGCGACATTTAAAGGCTGGA
TGGACATCATGTATGCGGCTGTGGACTCCAGAGGATGAGGAGCAGCCGAGTGGGAAGACAACCTCTA
CATGTACATCTACTTTGCTGCTTTCATCATCTTCCGCTCCTTCTCACCCCTCAACCTTTCATCGGTGTC
ATCATTGACAACCTTCAACCAGCAGAAGAAAAAGTTAGGGGGCCAGGATATCTTATGACGGAGGAGCAGA
AGAAGTACTACAATGCCATGAAGAAGCTGGGCTCCAAGAAACCCAGAGCCATCCCACGGCCCTTGAA
CAAGTACCAGGGTTTCATATTCGACATTGTGACCAAGCAGGCCTTCGATGTACCATCATGTTCTCATC
TGTTTGAACATGGTGACCATGATGGTGGAGACAGATGACCAGAGCCCTGAGAAGGTCAACATCTTGCCA
AGATCAACCTGCTTCTGTTGCCATCTTACAGGCGAGTGTATTGTCAAGATGGTGCCTGCGCCACTA
TACTTACCAACAGCTGGAACATCTTGCATTTGTGGTGGTGCATCCTCTCCATTGTTGGCACTGTCCCT
TCGGACATCATCCAGAAGTACTTCTTCCCGCACTCTTCCGGGTATCCGCTGTGCCAGGATCGGCC
GCATCCTCAGGCTGATCCGCGGAGCCAAGGGGATTCGCACGCTGCTTTCGCCCTCATGATGTCCTTGC
CGCCCTCTTCAACATCGGCCTCCTCCTTCTCGTATGTTTACTTCCATCTTCCGATGGCCAAC
TTCGTTACGTCAAGTGGGAGCCGGCATCGATGACATGTTCAACTTCCAGACCTTCGCCAACAGCATGC
TGTGCTGTTCCAGATCACCACATCAGCCGGCTGGGACGGCTCCTCAGCCCATCTCAACACGGGGCC

TCCTACTGCGACCCCAACCTGCCAACAGCAACGGCTCCCGGGGAACCTGTGGGAGCCCGCGGTGGG
 ATCCTCTTCTTACCACCTACATCATCATCTCCTTCTCATCGTGGTCAACATGTACATCGCCATCATCC
 TCGAGAACTTCAGCGTGGCCACCGAGGAGACACAGGCCCTGAGCGAGGACGACTTCGACATGTTCTA
 TGAGATCTGGGAGAAGTTCGACCCGGAGGCCACCCAGTTCATTGAGTATCTGGCCCTGTCCGACTTTGCA
 GATGCCTGTCTGAGCCGCTCCGCATCGCCAAACCAACCAGATAAGCCTCATCAACATGGATCGCCCA
 TGGTGAGCGGAGACCGTATCCACTGTATGGACATACTGTTTCGCTTCCACCAAGAGGGTGTCCGGCAGT
 TGGGAGATGGATGCCCTGAAGATCCAGATGGAGGAGAAGTTCATGGCGGCCAACCCCTTCAAGATCTCC
 TACGAGCCCATCACCAACCCTGAGGAGAAAGCACGAGGAGGTGTGGCCACGGTCATCCAGCGTCCCT
 TCCGGAGGCACCTGCTGCAGCGCTCGGTGAAGCATGCCTCCTTTCTTCCGCCAGCAAGCGGGCGGACG
 TGGCCTCTCCGACGAGGATGCCCTGAGCGGGAGGGCCTCATCGCTACATGATGAATGGAACTTCTCT
 CGGCGCAGTGTCCGCTCTCCAGCTCTCCATCTCCTCCACGTCCTTCCCCCGTCTACGACAGCGTCA
 CGAGAGCCACAGTGATAACCTCCCGTGTGCTGCTGACTATAGCCGACGGAAGATCTTGACAGACT
 CCCTCCATCTCCAGATAGGGACCGAGAGTCTATCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214460 representing NM_013125
 Red=Cloning site Green=Tags(s)

MANLLLPRGTSSFRFTRESLAAIEKRMAEKQARGGSATSQESREGLQEEEEAPRPQLDLQASKLPDLYG
 NPPRELIGEPLEDLDPFYSTQKTFIVLNKGKTIFFRSATNALYVLSPPFHPVRRRAVKILVHLSFMSLIMC
 TILTNCVFMHQDPPWTKYVEYFTAIYTFESLVKILARGFCLHAFTFLRDPWNWLDVSVIVMAYTTEF
 VDLGNVSALRTRFVLRALKTISVISGLKTIIVGALIQSVKKLADVMVLTVFCLSVFALIGLQFLMGNLRHK
 CVRNFTELNGTNGSVEADGLVWNSLDVYLNPNANYLLKNGTDDVLLCGNSSDAGTCPEGYRCLKAGENPD
 HGYTSFDSFAWAFALFRLMTQDCWERLYQQTLRSAGKIYMIFFMLVIFLGSFYLVNLILAVVAMAYEEQ
 NQATIAETEEKEKRFQEAMEMLKKEHEALTIRGVDTVSRSSLEMSPLAPVTNHERKSKRRKRLSSGTEDG
 GDDRLPKSDSEDPALNQLSLTHGLSRTSMRPRSSRGSIFTRRRDQGSADFADENSTAGESESHRT
 SLLVPWPLRHPSAQGPQPGASAPGYVNLNGKRNSTVDCNGVVSLGAGDAEATSPGYSYLLRPMVLDLDRPPD
 TTPSEEPGGPQMLTPQAPCADGFEEPGARQRALSAVSVLTSALEELEEHRKCPPCWNRFAQHYLIWEC
 CPLWMSIKQKVKFVVMDFADLTIITMCIIVLNTLFMALEHYNMTAEFEEMLQVGNLVFTGIFTAEMTFKII
 ALDPYYFQQGWNIIFDSIIVILSLMELGLSRMGNLSVLSFRLLRVFKLAKSWPTLNTLIIKIIIGNSVGAL
 GNLTLLVLAIIIVFIFAVVGMQLFGKNYSELRHRISDSGLLPRWHMDFHFAFLIIFRILCGEWIETMWD
 EVSQSLCLLVLLVMVIGNLVVNLFLALLLSSFSADNLTAPDEGEMNNLQLALARIQRLRFVYKRTT
 WDFCCGILRRRPKPAALATHSQLPSCITAPRPPPEVEKVPARKETRFEEKRPQGTPGDSEPVCV
 PIAVAESDTEDEEENSLGTEEESSQESQVVS GGHEPYQEPRAWSQVSETTSSEAGASTSQADWQQE
 QKTEPQAPGCGETPESYSEGSTADMTNTADLLEQIPDLGEDVKDPEDCFTEGCVRRCPCCMVDTTQSPG
 KVVWRLRKT CYRIVEHSWFETFIIFMILLSSGALAFEDIYLEERKTIKVLLEYADKMFTYVFLVEMLLK
 VAYGFKKYFTNAWCWLDLFIIVDVSLSLVANTLGF AEMGPIKSLRTRLRALRPLRALSRFEGMRVVNALV
 GAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFGRCINQTEGDLPLNYTIVNNKSECESFNVYTGELYWT
 KVNFDNVGAGYLALLQVATFKGWMIMYA AVDSRGYEEQPQWEDNLYMYIYFVVFIIFGSFFTLNLFIV
 IIDNFNQKQKLLGGQDIFMTEEQKYYNAMKLGSKKPKPIPRPLNKYQGFIFDIVTKQAFDVTIMFLI
 CLNMVMTMMVETDDQSPEKVNILAKINLLFVAIFTGECIVKMAALRHYYFTNSWNIFDFVVVILSIVGT
 SDIIQKYFFSPTLFRVIRLARIGRILRLIRGAKGIRTLFALMMSLPALFNIQLLLFLVMFIYSIFGMAN
 FAYVKEAGIDDMFNQTFANSMLCLFQITTSAGWDGLLSPILNTGPPYCDPNLPSNNGSRGNCSPAVG
 ILFFTTYIIISFLIVVNMYYIAIILENFSVATEESTEPLSEDDFDMFYEIWEKFDPEATQFIEYLALSDFA
 DALSEPLRIAKPNQISLINMDLPMVSGDRIHCMIDILFAFTRKRVLGESGEMDALKIQMEEKFMAANPSKIS
 YEPITTTLLRRKHEEVSATVIQRAFRRHLLQRSVKHASFLFRQQAGGSGLSDPADPEREGLIAYMMNGNFS
 RRSAPLSSSSISSTSFPPSYDSVTRATSDNLPVRASDYSRSEDLADFPSPDRDRESIV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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:	<u>NM_013125.2</u> , <u>NP_037257.1</u>
RefSeq Size:	8468 bp
RefSeq ORF:	6060 bp
Locus ID:	25665
UniProt ID:	<u>P15389</u>
Cytogenetics:	8q32
MW:	227.4 kDa
Gene Summary:	acts as a tetrodotoxin-resistant voltage gated sodium channel; may play a role in cardiac function [RGD, Feb 2006]