

Product datasheet for MR231904

Scn5a (NM_001253860) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scn5a (NM_001253860) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scn5a
Synonyms:	mH1; Nav1.5; Nav1.5c; SkM1; SkM2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231904 representing NM_001253860 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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GGCTCAGCCGGACATCCATGAGGCCCGCTCCAGCCGAGGGAGCATTTCACATTCGGCGACGGGACCA
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Protein Sequence:

>MR231904 representing NM_001253860
 Red=Cloning site Green=Tags(s)

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 DLGNVSALRTRFRVLRALKTISVLSGLKTIYVGLIQSVKKLADVMVLTVFCLSVFALIGLQLFMGNLRHKC
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 GYTSFDSFAWAFALFRLMTQDCWERLYQQTLSAGKIYMIFFMLVIFLGSFYLVNLI LAVVAMAYEEQN
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 PLWMSIKQKVKFVMDPFADLTIITMCIVLNTLFMALEHYNMATAEFEEMLQVGNLVFTGIFTAEMTFKIIA
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 IAVAESD TDDQEEDEENSLGTEEESSKQESQVVSGGHEPPQEPRAWSQVSETT SSEAEASTSQADWQQ
 ERAEPRAPGCGETPEDSYSEGSTADMTNTADLLEQIPDLGEDVKDPEDCFTEGCVRRCPCCMVDTTQAP
 GKVWVRLRKT CYRIVEHSWFETFIIFMILLSSGALAFEDIYLEERKTIKVLLEYADKMFTYVVFLEMLLK
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 VGAI PSIMNVLLVCLIFWLIFSIMGVNLFAGKFGRCINQTEGDLPLNYTIVNNKSECESFNVTGELYWTK
 VKVNFNDVAGYLALLQVATFKGWMDIMYAAVDSRGYEEQPQWEDNLYMYIYFVVFIIIFGSFFTLNLFIG
 VIIDNFNQK KKLGGQDIFMTEEQK KYNNAMKLGSKKPQKPIPRPLNKYQGFIFD IIVTKQAFDVTIMFL
 ICLNMVTMMVETDDQSPEKVNILAKINLLFVAIFTGECIVKMAALRHYYFTNSWNIFDFV VVILSIVGTV
 LSDIIQKYFFSPTLFRVIRLARIGRILRLIRGAKGIRTL L FALMMSLPALFNIGLLLFLVMFIYSIFGMA
 NFAYVKWEAGIDDMFNQTFANSMCLFQITTSAGWDGLLSPILNTGPPYCDPNLPNSNGSRGNCGSPAV
 GILFFTTYIIISFLIVVNYIAIILENFSVATEESTEPLSEDDFDMFYEIWEKFDPEATQFIEYLALSDF
 ADALSEPLRIAKPNQISLINMDLPMVSGDRIHCM DILFAFTKRVLGESGEMDALKIQMEEKFMAANPSKI
 SYEPIITTLRRKH EESVATVIQRAFRRHLLQRSVKHASF LFRQQAGSSGLSDEDAPEREGLIAYMMNEN
 SRRSGPLSSSSISSTSFPPSYDSVTRATSDNLPVRASDYSRSEDLADFPSPDRDRESIV

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_001253860.1, NP_001240789.1</u>
RefSeq Size:	8287 bp
RefSeq ORF:	6063 bp
Locus ID:	20271
UniProt ID:	<u>Q9JIV9</u>
Cytogenetics:	9 71.33 cM
MW:	228.2 kDa
Gene Summary:	This protein mediates the voltage-dependent sodium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a sodium-selective channel through which Na(+) ions may pass in accordance with their electrochemical gradient (PubMed:11834499, PubMed:23420830). It is a tetrodotoxin-resistant Na(+) channel isoform. This channel is responsible for the initial upstroke of the action potential. Channel inactivation is regulated by intracellular calcium levels (By similarity).[UniProtKB/Swiss-Prot Function]