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Product datasheet for MC225126

Scn5a (NM_021544) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scn5a (NM_021544) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Scn5a
Synonyms:	mH1; Nav1.5; Nav1.5c; SkM1; SkM2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225126 representing NM_021544 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCAAACTTCCTGTTACCTCGGGGCACCAGCAGCTTCCGTAGGTTCACCCGGGAGTCACTGGCGGCCA TCGAGAAGCGCATGGCTGAAAAACAAGCCCGTGGTTCGGCCACCTCACAGGAGAGCCGTGAGGGCCTGCC AGAGGAGGAGGCTCCCCGGCCCCAGCTGGACCTACAGGCCTCCAAAAAGCTGCCAGATCTCTATGGCAAC CCACCCCGAGAGCTCATTGGGGAGCCCCTGGAAGACCTGGACCCTTTCTATAGTACCCAGAAGACCTTCA TCGTGCTGAATAAGGGCAAAACCATCTTCCGGTTCAGTGCCACCAATGCCTTGTACGTCCTCAGCCCCTT CCACCCGGTGCGCAGAGCGGCTGTGAAGATTTTGGTACATTCGCTCTTCAGCATGCTCATCATGTGCACC ATCCTAACCAACTGTGTGTTCATGGCACAACACGACCCTCCGCCTTGGACCAAATATGTTGAGTACACCT TCACCGCCATCTACACCTTTGAGTCTCTGGTCAAGATTCTAGCTCGAGGCTTCTGCCTGCATGCGTTCAC CTTCCTCCGGGACCCGTGGAACTGGCTAGACTTCAGTGTGATCGTCATGGCGTATGTATCAGAGAATATA AAGCTAGGCAATTTGTCGGCTCTTCGAACTTTCAGAGTCCTGAGAGCTCTGAAAACGATTTCAGTTATTC CAGGCCTGAAGACAATCGTGGGAGCCCTAATCCAGTCTGTGAAGAAGCTAGCCGATGTGATGGTCCTTAC TGTCTTCTGCCTCAGTGTCTTTGCCCTCATTGGCCTGCAGCTCTTCATGGGCAACCTGAGGCACAAGTGC GTGCGTAACTTTACTGAGCTCAATGGCACCAATGGTTCCGTGGAGGCCGATGGCATAGTCTGGAACTCTC TGGACGTCTACCTCAATGACCCAGCCAATTACCTACTCAAGAATGGCACCACGGATGTGTTGCTGTGTGG GAACAGCTCTGATGCCGGGACATGTCCTGAAGGCTACCGGTGCCTGAAGGCAGGTGAGAACCCTGACCAC GGTTACACCAGCTTCGACTCCTTCGCCTGGGCTTTCCTTGCGCTCTTCCGCCTGATGACACAGGACTGCT GGGAACGTCTATACCAGCAGACCCTGAGGTCCGCAGGAAAGATCTACATGATCTTCTTCATGCTTGTCAT ATTCCTGGGCTCCTTCTACCTTGTGAACTTGATCCTGGCTGTGGTGGCCATGGCTTACGAGGAGCAAAAC CAAGCCACCATCGCCGAGACGGAAGAGAAGGAGAAGCGTTTCCAGGAGGCCATGGAGATGCTCAAGAAGG AACACGAGGCTCTCACCATCAGGGGCGTGGATACTGTGTCCCGTAGCTCTCTGGAGATGTCTCCTTTGGC CCCAGTAACCAACCATGAGAGAAGGAGCAAGAGGAGGAAACGACTGTCTTCAGGGACAGAGGATGGCGGA GATGACAGGCTCCCCAAGTCGGACTCAGAAGACGGTCCCAGAGCATTGAATCAGCTCAGCCTCACCCATG

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ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_021544
Insert Size:	6063 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_021544.4, NP_067519.2
RefSeq Size:	8455 bp
RefSeq ORF:	6063 bp
Locus ID:	20271
UniProt ID:	Q9JJV9
Cytogenetics:	9 71.33 cM

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]
Transcript Variant: This variant (1) represents the longer transcript and it encodes the longer protein (isoform 1).