

## Product datasheet for **MC210878**

### Scnm1 (NM\_001163573) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Scnm1 (NM\_001163573) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Scnm1  
**Synonyms:** 3110001117Rik; Scnm1-ps  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC210878 representing NM\_001163573  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCTTTTAAGAGGGAAGGGGACGACTGGAGTCAACTCAATGTGCTCAAAAACGGAGAGTTGGGGACC  
TGCTGGCTAGTTACATCCCTGAGGACGAGGCACCTGATGCTGCGGGATGGACGCTTTGCTTGCCATCTG  
CCCCATCGACCACTAGACACGCTGGCCATGTTGACAGCCACCGTGCAGGCAAGAAGCATTGTCC  
AGTCTGAAGCTTTTCTATGGCAAAAAGCAAACAGGCAAGGGAACAGAGCAAAATCCAAGACAGCAGAACC  
AATTGAAGACAGAAAGCAAAACTGAGGCTCCTTTGCTAATCCAGACTCGAATCATCACCCAGAATGCTCT  
ACACAGAGCTCCCCACTATAACAGTTGCTGCCGGAGGAAGCACAGCTCTGGATGGGTCCCAGATGGACGA  
GGTCGATGGATAAAGGATGAAAAATGTTGAGTTGACTCTGATGAGGAAGAGCCCCCGATCTCCCCTTGG  
ACTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001163573  
**Insert Size:** 495 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).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001163573.1, NP_001157045.1</u>
<b>RefSeq Size:</b>	693 bp
<b>RefSeq ORF:</b>	495 bp
<b>Locus ID:</b>	69269
<b>UniProt ID:</b>	<u>Q8K136</u>
<b>Cytogenetics:</b>	3 40.74 cM
<b>Gene Summary:</b>	<p>Mutations in the voltage-gated sodium channel gene Scn8a lead to neurological problems in mice. For one particular mutation, Scn8amedJ, mice live to adulthood but have tremors and muscle weakness, among other problems, in all strains except those derived from C57BL6 mice. In these strains, the product of the Scnm1 gene (229 aa) partially overcomes the effects of the Scn8amedJ mutation. However, in C57BL6-derived mice, a one nt change in the penultimate exon creates a premature stop codon, truncating the Scnm1 protein at 186 aa. This truncated protein lacks the ability to overcome the effects of the Scn8amedJ mutation, and these mice suffer paralysis and juvenile death. [provided by RefSeq, Jul 2009]</p> <p>Transcript Variant: This variant (2) lacks the exon containing the stop codon compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 1.</p>