

## Product datasheet for MR231898

### Scn9a (NM\_001290675) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Scn9a (NM_001290675) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scn9a
Synonyms:	mKIAA4197; Nav1.7; PN1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231898 representing NM_001290675 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:**

>MR231898 representing NM\_001290675  
 Red=Cloning site Green=Tags(s)

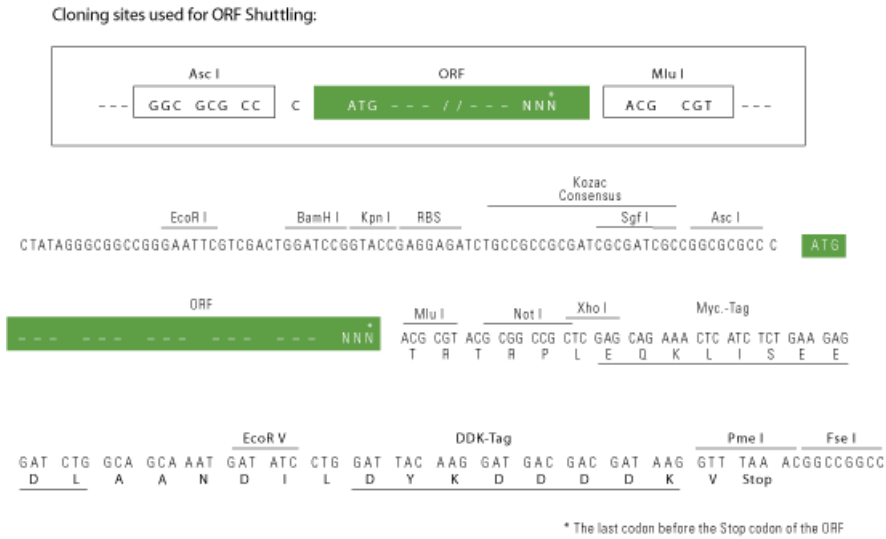
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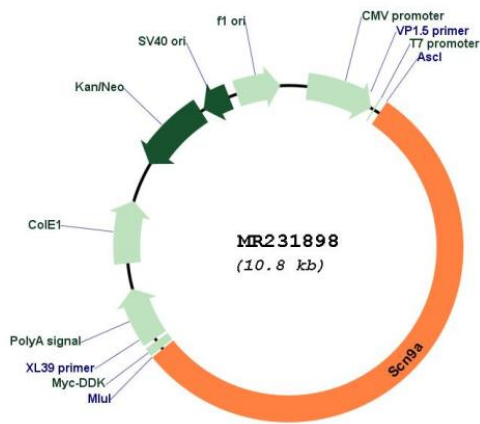
**Restriction Sites:**

AscI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001290675

ORF Size: 5919 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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><a href="#">NM_001290675.1</a></u> , <u><a href="#">NP_001277604.1</a></u>
<b>RefSeq Size:</b>	9832 bp
<b>RefSeq ORF:</b>	5922 bp
<b>Locus ID:</b>	20274
<b>Cytogenetics:</b>	2 39.13 cM
<b>MW:</b>	225.1 kDa
<b>Gene Summary:</b>	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:15123669). It is a tetrodotoxin-sensitive Na(+) channel isoform. Plays a role in pain mechanisms, especially in the development of inflammatory pain (PubMed:15314237).[UniProtKB/Swiss-Prot Function]