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Product datasheet for MR231900

Scn9a (NM_001290674) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scn9a (NM_001290674) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scn9a
Synonyms:	mKIAA4197; Nav1.7; PN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR231900 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCCC

ATGGCGATGTTGCCTCCGCCAGGACCTCAGAGCTTCGTTCACTTCACAAAACAGTCCCTTGCCCTCATTG
AACAACGCATTTCTGAAGAAAAAGCCAAGGGACACAAAGATGAAAAGAAAGATGATGAGGAAGAAGGTCC
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Protein Sequence:

>MR231900 protein sequence
Red=Cloning site Green=Tags(s)

MAMLPPPGPQSFVHFTKQSLALIEQRISEEKAKGHKDEKKDDEEEGPKPSSDLEAGKQLPFIYGDIPPGM
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SALRTFRVLRALKTISVIPGLKTIVGALIQSVKKLSDVMILTVFCLSVFALIGLQLFMGNLKHKCFRKDL
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MSFVLYWINVVFIILFTGECVLKLISLRHYYFTVGWNIFDFVVVILSIVGMFLAEMIEKYFVSPTLFRVI
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TFGNSMICLFQITTSAGWDGLLAPILNSAPPDCDPKKVHPGSSVEGDCGNPSVGIFYFVSYIIISFLVVV
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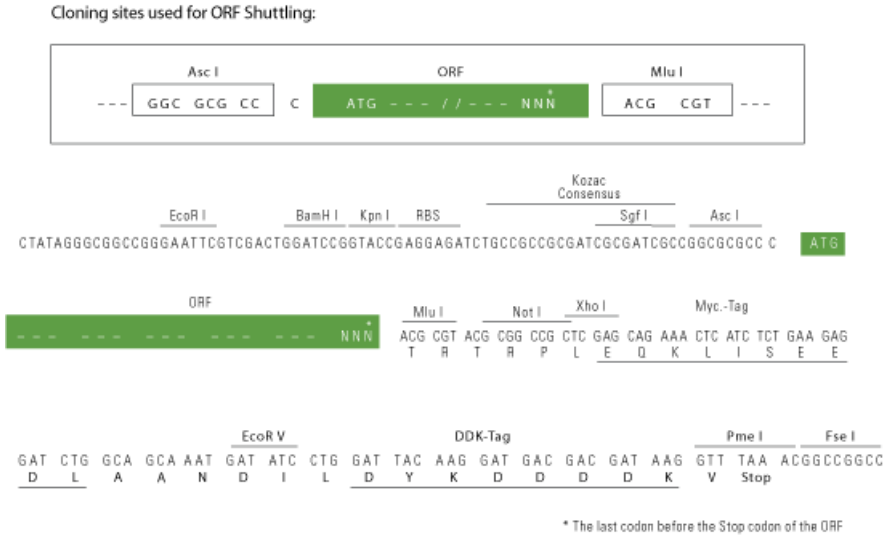
Restriction Sites: AscI-MluI

Cloning Scheme:



ACCN: NM_001290674

ORF Size: 5952 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

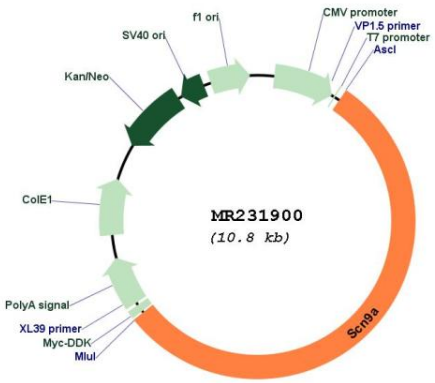
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001290674.1, NP_001277603.1
RefSeq Size:	9865 bp
RefSeq ORF:	5955 bp
Locus ID:	20274
UniProt ID:	Q62205
Cytogenetics:	2 39.13 cM
MW:	225.8 kDa
Gene Summary:	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]

Product images:



Circular map for MR231900