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Product datasheet for MR216626

Scn4a (NM_133199) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scn4a (NM_133199) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scn4a
Synonyms:	mH2; Nav1.4; SkM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR216626 representing NM_133199
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>MR216626 representing NM_133199
Red=Cloning site Green=Tags(s)

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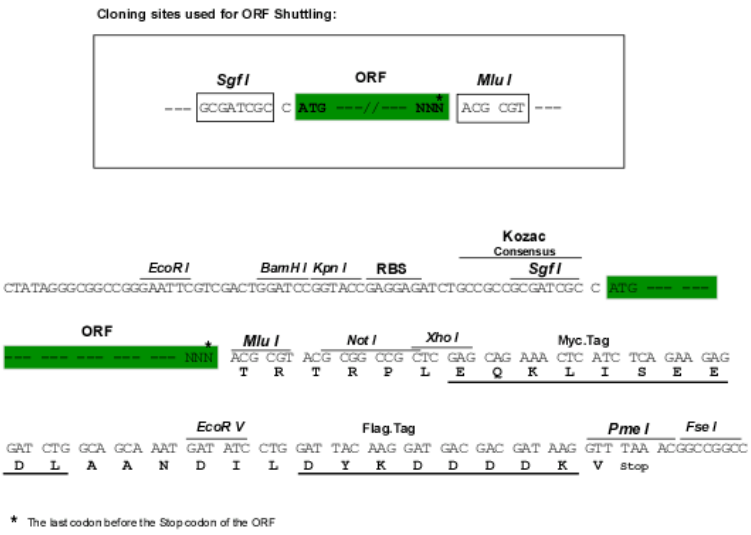
Chromatograms: https://cdn.origene.com/chromatograms/mm9011_b10.zip

Restriction Sites: SgfI-MluI

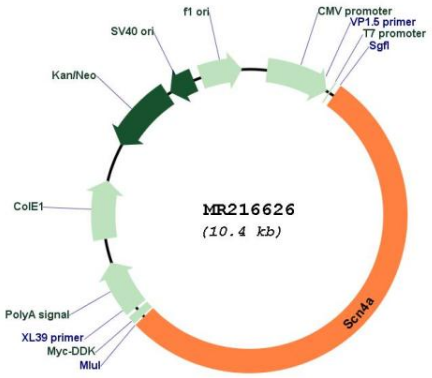
Cloning Scheme:



ACCN:	NM_133199
ORF Size:	5523 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
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_133199.2, NP_573462.2
RefSeq Size:	6598 bp
RefSeq ORF:	5526 bp
Locus ID:	110880
UniProt ID:	Q9ER60
Cytogenetics:	11 68.91 cM
MW:	209.2 kDa
Gene Summary:	Pore-forming subunit of a voltage-gated sodium channel complex through which Na(+) ions pass in accordance with their electrochemical gradient. Alternates between resting, activated and inactivated states (PubMed:11834499). Required for normal muscle fiber excitability, normal muscle contraction and relaxation cycles, and constant muscle strength in the presence of fluctuating K(+) levels (PubMed:18317596, PubMed:21881211).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216626