

Product datasheet for **RC231394**

NSUN2 (NM_001193455) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSUN2 (NM_001193455) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NSUN2
Synonyms:	MISU; MRT5; SAKI; TRM4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC231394 representing NM_001193455
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGGGCGCGGTGCGGGGTGCGGGCTCCAGCAACAGCAGCGGCCGAGGACGCGGAGGATGGCGCCG
 AGGGTGGTGAAAGCGCGCGAGGCGGGCTGGGAAGGAGGCTACCCGAGATCGTCAAGGAGAACAAGCT
 GTTCGAGCACTACTACCAGGAGCTCAAGATCGTCCCGAGGGCGAGTGGGGCCAGTTCATGGACGCTCTC
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Protein Sequence: >RC231394 representing NM_001193455
 Red=Cloning site Green=Tags(s)

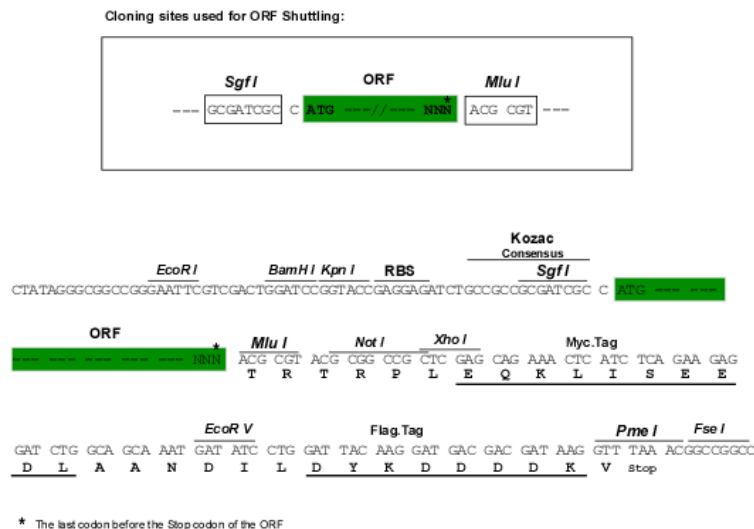
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 TQIRPTMFPPKDPEKLQAMHLERCLRILPHHQTGGFFVAVLVKKSSMPWNKRQPKLQGKSAETRESTQL
 SPADLTEGKPTDPSKLESPSFTGTGDTIAHATEDLENNGSKKDGVCPPPSKKMKLFGFKEDPFVFIPE
 DDPLFPPIEKFYALDPSFPRMNLTRTTEGKRQLYMSKELRNVLNNSEKMKVINTGIKWCRNNSGE
 EFDCAFRLAQEGITYLPFINSRIITVSMEDVKILLTQENPFFRKLSETYSQAKDLAKGSIVLKYPEDS
 ANPDALQCPIVLCGWRGKASIRTFVPKNERLHYLRMMGLEVLGEKKKEGVILTNESAASTGQPDNDVTEG
 QRAGEPNSPDAEEANSPDVTAGCDPAGVHPPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001193455

ORF Size: 2196 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001193455.2](#)

RefSeq ORF: 2199 bp

Locus ID: 54888

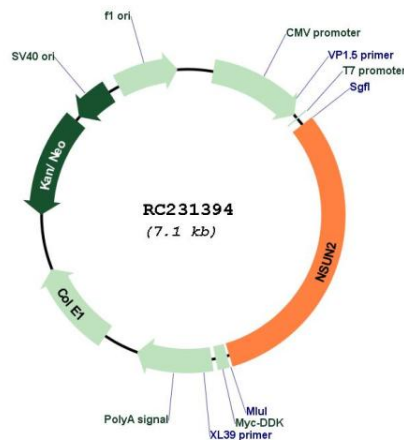
UniProt ID: [Q08J23](#)

Cytogenetics: 5p15.31

MW: 82.8 kDa

Gene Summary: This gene encodes a methyltransferase that catalyzes the methylation of cytosine to 5-methylcytosine (m5C) at position 34 of intron-containing tRNA(Leu)(CAA) precursors. This modification is necessary to stabilize the anticodon-codon pairing and correctly translate the mRNA. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Mar 2011]

Product images:



Circular map for RC231394