

Product datasheet for **SC106395**

NSUN2 (NM_017755) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSUN2 (NM_017755) Human Untagged Clone
Tag:	Tag Free
Symbol:	NSUN2
Synonyms:	MISU; MRT5; SAKI; TRM4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC106395 sequence for NM_017755 edited (data generated by NextGen Sequencing)

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ATGGGGCGGGCGGTGCGGGGGTCCAGCAACAGCAGCGGCCGGAGGACGCGGAG
GATGGCGCCGAGGGTGGTGGAAAGCGGGCGAGGGCGGCTGGGAAGGAGGCTACCCCGAG
ATCGTCAAGGAGAACAAGCTGTTTCGAGCACTACTACCAGGAGCTCAAGATCGTGCCCGAG
GGCGAGTGGGGCCAGTTCATGGACGCTCTCAGGGAGCCGCTCCCGGCCACTTTAAGAATT
ACTGGTTACAAAAGCCACGCAAAAGAGATTCTCCATTGCTTAAAGAACAATAATTTTAAG
GAATTGGAGGACCTGGAGGTGGACGGTCAAGAAAGTTGAAGTTCCACAGCCACTGAGTTGG
TATCCTGAAGAACTTGCCTGGCAGACAAAATTTAAGTCGAAAAATCTTGAGAAAAATCGCCA
CACTTGGAAAAAGTTTCATCAGTTTCTAGTTAGTAAACAGAATCTGGAAATATTAGTCGT
CAAGAAGCTGTTAGCATGATCCCACCACTGCTCCTCAACGTGCGGCTCATCATAAGATC
TTAGATATGTGTGCAGCACCTGGCTCAAAGACCACACAGTTAATTGAAATGCTACATGCC
GACATGAATGTCCCTTTCCAGAGGGATTTGTTATTGCGAATGATGTGGACAACAAGCGC
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CATGATGCCTCCAGCATACCCAGGCTCCAGATAGATGTGGACGGCAGGAAAGAGATCCTC
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CTGCAGGCCATGCACCTGGAGCGATGCCCTTAGGATATTACCCCATCATCAGAATACTGGA
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CGGGGAAAGGCCCTCCATTCGAACTTTTGTGCCAAGAATGAACGGCTTCATTATCTCAGG
ATGATGGGGCTGGAGGTATTGGGAGAAAAGAAGAAGGAAGGGGTTATCCTCACAATGAG
AGTGCAGCCAGCACCCGGACAGCCAGACAATGACGTGACTGAGGGACAGAGAGCAGGAGAG
CCCAACAGCCCAGATGCAGAAGAGGCCAACAGTCCAGACGTGACAGCAGGCTGTGACCCG
GCGGGGTCCATCCACCCCGGTGA
    
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Clone variation with respect to NM_017755.5
1749 g=>a

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_017755 unedited GGTCACCATTTGTATACGACTCACTATAGGCGGCCGCAAATTCGCACGACCCGGAAGTC CCGGGAGGTGTAGGGCTAGAGTTCTGGCCGTGGCGGGCCGGTTTTCTGCGTGCTGCGTGCG CGGCCGCGTGGGCTATGGGGCGGGCGGTGCGGGGTGCGCGGCTCCAGCAACAGCAGCGGC CGGAGGACGCGGAGGATGGCCGCGAGGGTGGTGGAAAGCGCGCGAGGCGGGCTGGGAAG GAGGCTACCCCGAGATCGTCAAGGAGAACAAGCTGTTGAGCAGCTACTACCAGGAGCTCA AGATCGTGCCCGAGGGCGAGTGGGGCCAGTTCATGGACGCTCTCAGGGAGCCGCTCCCGG CCACTTTAAGAATTACTGGTTACAAAAGCCACGCAAAAGAGATTCTCATTGCTTAAAGA ACAAATATTTTAAAGGAATTGGAGGACCTGGAGGTGGACGCTCAGAAAGTTGAAGTTCCAC AGCCACTGAGTTGGTATCCTGAAGAACTTGCCTGGCACACAAATTTAAGTCGAAAAATCT TGAGAAAAATCGCCACACTTGAAAAAGTTTCATCAGTTTCTAGTTAGTGAACAGAATCTG GAAATATTAGTCGTAAGAAGCTGTTAGCATGATCCCACCACTGCTCCTCAACGTGCGGC CTCATCATAAGATCTTAGATATGTGTGCAGCACCTGGCTCAAGACCACACAGTTAATTGA AATGCTACATGCCGACATGAATGTCCCCTTTCCAGAGGGATTTGNTATTGCGAATGATGT GGACAACAGCGCTGCTACCTGCTCGTCCATCAAGCCAAGAGGCTGAGCAGCCCCTGCATC ATGGTGGTCAACCATGATGCCTCCAGCATACCCAGCTTCAGATAGATGTGGACGGGCGAG AAAGAGATCCTCTNCTATGATCGAATTTATGTGATGTCCTTGCAAGTGGAGCAGCACTATGA AAAAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_017755 unedited NGGTTCCGCCATCGNNGATGGCACTTTCCAGGNCCAGNAAAGCACTGGGGNAGGGTCAC AGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTC GAGTTTTTTTTTTTTTTTTTATATTTTATCAATTTTATTGAAATATTCCAAGGATCCCA ACCCCATTTAAAAATAAAAATTGTAAAGCACTCCATTCAATAAAAAGCACATAAGTCCCCC TCAATAATTAGTATGACAATTCAGATACAGCTCTTACTCTGGGAGAGTTTATTTTACCC TTTATTTCCAAAAGGCACAAAGTCATCTGAGGCCTCAGATATTAACCCCACTGCATGTTAA TGACACACCACTGAGGTGCAGCTCAATGTAATTTAAAGCTTATAACACACTTCCCAA GAATTTATAGATTCTTTCTATAAATAATAATTTAAAAAATACTGCACCTTAAGACCAATA CAGGCTTAACAAAAGACCTGAAATTTCTGCAAGGGCAGTTTTGTTTCTTGATAGAAGTAC AACTTTTGAAGTCTATTCCCAGCAAAAAGAACTAGACCCAGCTTGGCCAAAGAAACA AAATAAAAACAAGTATTCTAACACGCTAAAAGAGTACATTTTTCATCAGCTCCAAAGAAA GCAGTCTGGTCAATTCAGAAGGCTCCTATGATCCACCACTGTCAGTCATTAGAAATAT ATGCTTTACAGGCCACAGGCTGCTCTGGATTTGGTTTCAGACACCACTGACCAGAAGAAG CCAGTTTTGCGTGTGAGGGGTGTGGGCCCGCTGCCTTGGGCTGCTCACCGNGGTGG ATGGACCCCGCCNGGTCACAGCCTGCTGTACGCTGGACTGTTGGCCTCTTCTGCATC TGGN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_017755
Insert Size:	3000 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).
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_017755.4](#), [NP_060225.4](#)

RefSeq Size: 3089 bp

RefSeq ORF: 2304 bp

Locus ID: 54888

UniProt ID: [Q08J23](#)

Cytogenetics: 5p15.31

Domains: Nol1_Nop2_Sun

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]
Transcript Variant: This variant (1) represents the predominant transcript and encodes the longer isoform (1).