

Product datasheet for **SC108287**

NSUN3 (NM_022072) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSUN3 (NM_022072) Human Untagged Clone
Tag:	Tag Free
Symbol:	NSUN3
Synonyms:	MST077; MSTP077
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_022072, the custom clone sequence may differ by one or more nucleotides

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ATGCTGACCCAGCTGAAAGCAAAATCAGAGGGGAAGCTTGCAAAACAGATTTGCAAAGTTGTGTTGGATC
ATTTTGAAAAACAGTATTCCAAAGAACTCGGAGATGCCTGGAATACAGTAAGGGAGATACTAACATCTCC
ATCATGCTGGCAATATGCTGTCTGCTTAACCGATTCAATTATCCTTTTGAAGTGGAAAAGGATTTACAT
TTGAAGGGCTATCACACTCTCTCAGGGATCTTACCCTAACTATCCTAAATCAGTGAAGTGTACCTTA
GCAGAACTCCGGGCCGAATCCCTTCAGAAAGACACCAAATGGAAACCTGAAAAATATTATCTCCTAAA
TGCTGCTTCTCTCTCCAGTGTGGCTCTGGAATTAAGGGATGGGGAGAAGTTCTGGATCTCTGTGCT
GCTCCTGGAGGAAATCAATAGCTCTGCTGCAGTGTGCTTGCCAGGTTATCTTCATTGTAATGAATATG
ATAGTCTGAGATTGAGGTGGCTAAGGCAGACGTTGGAATCTTTCATCCCACAGCCTTGATAAATGTAAT
TAAAGTGTCTGAATTGGATGGCAGAAAAATGGGAGATGCCAGCCTGAAATGTTTGACAAGGTGTTAGTG
GATGCTCCGTGTTCAAATGATCGAAGCTGGTTGTTTTCTCTGACTCTCAGAAGGCATCCTGTAGGATAA
GTCAAAGGAGGAATTTGCCTCTTCTACAGATAGAGCTGTTAAGGTCTGCAATTAAGGCCTTACGTCTCGG
AGGGATACTTGTATACTCTACATGCACGCTTCCAAGGCAGAAAAATCAAGATGTGATCAGTGAATTTTA
AACTCCCACGGTAACATCATGCCTATGGACATTAAGGAATAGCAAGGACTTGCTCCCACGACTTCACAT
TTGCTCCCAGTGGCCAGGAATGTGGGCTCTTAGTGATTCCAGATAAGGGCAAAGCCTGGGGCCCAATGTA
TGTAGCCAAATTGAAGAAATCATGGAGCACAGGAAAATGGTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_022072 unedited TTTTACATTTGTATACGACTCCTATAGGGCGGCCGCAATTTCGCACCAGCGAATCCCGGA AGTCAGACTGTTTTTTTTCAGTCCCTGGAGGCTTTTTGATACTGATTTCGCGTACACCTGT TGTTTGAAAGCTCTCAGCGGGACAATGCTGACCCAGAGACACGTCCTTGATATGTTTTCC AGTCTGGTCTTGAAGTGGGAAATGATCCTCTCGCCTCGTCCCTGCAAAGCATGAGCCAGC TGGAGTACAGTGGCGGATCTCGGCTCACTGCAACCTCCACCTCCTGAGTTCAGCGATT CTCCCACCTCAGCCCCCTGAGTAGCTGAAAGCAAATCAGAGGGGAAGCTTGCAAAACAG ATTTGCAAAGTTGTGTTGGATCATTGAAAAACAGTATTCCAAAGAAGCTCGGAGATGCC TGGAAACAGTAAGGGAGATACTAACATCTCCATCATGCTGGCAATATGCTGTCCTGCTT AACCGATTCAATTATCCTTTTGAAGTGGAAAAGGATTTACATTTGAAGGGCTATCACACA CTCTCTCAGGGATCTTTACCCAATATCCTAAATCAGTGAAGTGTACCTTAGCAGAAGT CCGGGCCGAATCCCTTCAGAAAGACACCAAATTGGAAACCTGAAAAATATTATCTCCTA AATGCTGCTTCTTTCTCCAGTGTGGCTCTGGAATTAAGGGATGGGGAGAAGTTCTG GATCTCTGTGCTGCTCCTGGAGGAAATCAATAGCTCTGCTGCAGTGTGCTTGCCAGGT TATCTTCATTGTAATGAATATGATAGTCTGAGATTGANGTGGCTAANGCAGACGTTGGAA ATCTTCATCCCACAGCCTTTGATANATGTAATAAGTGTCTGAATTGCATGCCAGAAAA TGGGAGATCCCCACCCTGAATGTTGACAAGGTGTAGTGCA
Restriction Sites:	NotI-NotI
ACCN:	NM_022072
Insert Size:	3200 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:	<ol style="list-style-type: none"> 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_022072.2 , NP_071355.1
RefSeq Size:	1466 bp
RefSeq ORF:	1023 bp
Locus ID:	63899
UniProt ID:	Q9H649
Cytogenetics:	3q11.2
Domains:	Nol1_Nop2_Sun

Gene Summary:

Mitochondrial tRNA methyltransferase that mediates methylation of cytosine to 5-methylcytosine (m5C) at position 34 of mt-tRNA(Met) (PubMed:27497299, PubMed:27214402, PubMed:27356879). mt-tRNA(Met) methylation at cytosine(34) takes place at the wobble position of the anticodon and initiates the formation of 5-formylcytosine (f(5)c) at this position (PubMed:27497299, PubMed:27214402, PubMed:27356879). mt-tRNA(Met) containing the f(5)c modification at the wobble position enables recognition of the AUA codon in addition to the AUG codon, expanding codon recognition in mitochondrial translation (PubMed:27497299, PubMed:27356879).[UniProtKB/Swiss-Prot Function]