

Product datasheet for **SC319543**

NSUN4 (NM_199044) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: NSUN4

Synonyms: SHTAP

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC (PS100020)

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_199044.2 CACCACCTCCCCGGAACACGCGAGTCTCCTGTCGCGGTTCCGGTCGGAATTACCCCGTGG
AGCACGCCGATATGGCTGCGCTGACACTGAGGGGTGTCCGGGAGCTGCTGAAGCGTGTGG
ACCTCGCGACGGTCCCGCGGAGACATCGATATAAGAAGAAATGGGCTGCCACAGAGCCCA
AATTCCTGCTGTTGCGACTGGCTTTGAGAAATTTGACATGGCTTACAGTGTGAGTTTG
GAGATCTTTGGCCATCAATCCGTGTCAGTCTCCTCTCAGAGCAGAAGTATGGTGCAGTGG
TCAATAACTTTGCTGCCTGGGATCATGTAAGTGCTAAGCTGGAGCAGCTGAGTGCCAAGG
ATTTTGTGAATGAAGCCATCTCCCACTGGGAACCTGCAGTCTGAGGGTGGCCAATCTGCAG
CCCCATCCCCTGCCTCCTGGGCTGCACTCCGAACCTTCGATGCTTCACTTTTGACAGAG
GGGATATCAGTCGCTTCCCTCCTGCCAGACCTGGCAGCCTGGGTGTCATGGAGTACTACC
TGATGGATGCTGCCTCCTTGTGCTGTTCTGGCCCTCGGCTGCAGCCTGGGGACATCG
TGCTTGACCTATGTGCAGCTCCTGGGGGAAAGACACTAGCGTTGCTTCAGACTGGCTGTT
GCCGCAATCTTGCTGCCAATGATCTCTCCCGTCCCGAATAGCCAGACTACAGAAGATCC
TTCACAGCTATGTGCTGAAGAGATCAGGGATGGAAATCAAGTTCGAGTTACCTCATGGG
ATGGCAGGAAATGGGAGAACTGGAGGGGACACCTATGACCGGGTCTGGTGGATGTGC
CCTGTACCAGACCGCCACTCCCTTCATGAGGAGGAGAAACATCTTTAAGCGGTCAA
GGAAGAAGGAGCGACAGATATTGCCTGTGCTGCAAGTGCAGCTTCTTGCGGCTGGACTCC
TTGCCACAAACCAGGAGGCCATGTTGTCTATTCTACCTGCTCACTCTCACACTTACAGA
ACGAGTATGTGGTGCAAGGTGCCATTGAGCTCCTGGCCAATCAATACAGCATCCAGGTAC
AGGTGGAAGATCTGACTCACTTCCGAAGGGTTTTCATGGACACATTTTGTCTTCTCAT
CCTGTGAGGTTGGGAGCTGGTAATACCAACCTCATGGCCAATTTTGGCCCCATGTA
TCTGCAAAATGCGTAGGCTGACATAGTATCACCAATCCCTGAAGCAAGAATACAAAGGG
TATACTCTGTTGGATGCACAGAACTGGAACCTGGGACCAGTGGCAGAGATGCACTCTC
GGTCTGTCTCCATCCTGTTCTGTCTTTCTGCAGTTTTCGGCAATAAGAAGTAGAAGAT
TTGCTGTCCTGCTGTCATTTGTGGAGCATCAGCAGGTTTCCAACCTCACTCATTAACCCC
TACCCCATCTCCAGGCTGTAAGTTTGTGCTGCCGCTTAGGGGCTTAGAAGGAGAAG
CCAGTGAGCAGGCTCACACTAAGTTGTAACATAGGAGAAGCATTTGGCCAATAAAGTTG
TTGAACTCTAAAAAAAAAAAAAAAAAAAA



Restriction Sites:	Please inquire
ACCN:	NM_199044
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_199044.2</u> , <u>NP_950245.2</u>
RefSeq Size:	4465 bp
RefSeq ORF:	1155 bp
Locus ID:	387338
UniProt ID:	<u>Q96CB9</u>
Cytogenetics:	1p33
Protein Families:	Druggable Genome

Gene Summary:

Involved in mitochondrial ribosome assembly. 5-methylcytosine rRNA methyltransferase that probably is involved in mitochondrial ribosome small subunit (SSU) maturation by methylation of mitochondrial 12S rRNA; the function is independent of MTERFD2/MTERF4 and assembled mitochondrial ribosome large subunit (LSU). Targeted to LSU by MTERFD2/MTERF4 and probably is involved in a final step in ribosome biogenesis to ensure that SSU and LSU are assembled. In vitro can methylate 16S rRNA of the LSU; the methylation is enhanced by MTERFD/MTERF4. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer isoform (α). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.