OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC310460

NSUN4 (NM_199044) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	NSUN4
Synonyms:	SHTAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310460 representing NM_199044. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGCTGCGCTGACACTGAGGGGTGTCCGGGAGCTGCTGAAGCGTGTGGACCTCGCGACGGTCCCGCGG AGACATCGATATAAGAAGAAATGGGCTGCCACAGAGCCCAAATTCCCTGCTGTTCGACTGGCTTTGCAG AATTTTGACATGACTTACAGTGTGCAGTTTGGAGATCTTTGGCCATCAATCCGTGTCAGTCTCCTCTCA GAGCAGAAGTATGGTGCACTGGTCAATAACTTTGCTGCCTGGGATCATGTAAGTGCTAAGCTGGAGCAG CTGAGTGCCAAGGATTTTGTGAATGAAGCCATCTCCCACTGGGAACTGCAGTCTGAGGGTGGCCAATCT GCAGCCCCATCCCCTGCCTCCTGGGCCTGCAGTCCGAACCTTCGATGCTTCACTTTTGACAGAGGGGAT ATCAGTCGCTTCCCTCCTGCCAGACCTGGCAGCCTGGGTGTCATGGAGTACTACCTGATGGATGCTGCC TCCTTGCTGCCTGTTCTGGCCCTCGGCCTGCAGCCTGGGGACATCGTGCTTGACCTATGTGCAGCTCCT GGGGGAAAGACACTAGCGTTGCTTCAGACTGGCTGTTGCCGCAATCTTGCTGCCAATGATCTCTCCCCG TCCCGAATAGCCAGACTACAGAAGATCCTTCACAGCTATGTGCCTGAAGAGATCAGGGATGGAAATCAA GTTCGAGTTACCTCATGGGATGGCAGGAAATGGGGAGAACTGGAGGGGGACACCTATGACCGGGTGCTG GTGGATGTGCCCTGTACCACAGACCGCCACTCCCTTCATGAGGAGGAGAACAACATCTTTAAGCGGTCA AGGAAGAAGGAGCGACAGATATTGCCTGTGCTGCAAGTGCAGCTTCTTGCGGCTGGACTCCTTGCCACC AAACCAGGAGGCCATGTTGTCTATTCTACCTGCTCACTCTCACACTTACAGAACGAGTATGTGGTGCAA GGTGCCATTGAGCTCCTGGCCAATCAATACAGCATCCAGGTACAGGTGGAAGATCTGACTCACTTCCGA AGGGTTTTCATGGACACATTTTGTTTCTTCTCATCCTGTCAGGTTGGGGAGCTGGTAATACCAAACCTC ATGGCCAATTTTGGCCCCATGTACTTCTGCAAAATGCGTAGGCTGACATAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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ACCN:	NM_199044
Insert Size:	1155 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).
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:	NM_199044.3
RefSeq Size:	5128 bp
RefSeq ORF:	1155 bp
Locus ID:	387338
UniProt ID:	Q96CB9
Cytogenetics:	1p33
Protein Families:	Druggable Genome
MW:	43.1 kDa

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 (a). 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.