

Product datasheet for **MC205864**

Nsun4 (NM_028142) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Nsun4
Synonyms:	2310010O12Rik; 2810405F18Rik; AI507900; Shtap
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:	>BC024628 TATTGGCGTTGTTAGTTGACATGGCTGCGCCCGTCTTAAGATGTGTTCGGAAGCTGCTGAAGCTCGTGGA CTTCACGCCGGTCCCGCGGAGATATCGATATAAGAAGAAATGGGCTACCCAGAACCAATTCACGGCC AGTCGGCTTGCTCTGCAGAAATTTGACATGACCTACAGTGTACAGTTTGGGGATCTTTGGCCATCAATCC GTGTTAGTCTTCTCTCAGAGCAGAAGTATGGTGCATTGGTCAATAATTTTGCTGCTTGGGATAGTGTGAG TGCTAAGCTGGAGCAGCTGAGTGCCAAGGACTTCGTCAGTGAAGCCATCTCTCACCAGAACTGGAGCCT GAGAGTGGCCTCTCTCAACTCCATCCCTGGACTGCAGCCCAAATCTTCGATGCTTCACTTTTTCCAGAG GGGACGTCAGCCGCTTTCTCTCTGCCAGACTTGGCAGCCTGGGTCTCATGGACTACTACCTGATGGATGC TGCCTCCTTGCTCCCTGTCTGGCTCTTGGTCTGCAGCATGGAGACACTGTGCTTGATCTGTGTGCTGCT CCTGGGGGCAAAACGCTGGCATTACTTCAGACGGGTGTTGCCGTAATCTAGCTGCCAACGACCTCTCCA CTTCCCGAACAGGCAGACTGCAGAAGGTCCTTCACAGTTATGTGCTCAAGATATTAGGGAAGGGAACCA AGTCCGAGTTACCTCATGGGATGGCAGGAAGTGGGAGAACTGGAGGGGACACCTATGATAGGGTGTTA GTAGATGTGCCATGTACCACGGACCGCCATTCCCTTCATGAGGAAGAGAACAACATCTTTCAGCGGTCAA GGAAGAAGGAGCGACAGATGTTGCCTATGTCTGAGGTGCAGCTTCTTGGGCTGGACTCCTTGCCACCAA ACCAGGAGGTACGTTGTCTATTCACTTGCTCACTGTCTCACTTACAGAATGAGTATGTGGTCAAGGT GCCATTGAGCTTCTGGCCAATCAATACAACATCAAGGTTCAAGTGAAGACCTGTCTCACTTCCGAAAGC TTTTCATGGACACATTCTGTTTCTTCCCATCTGCCAGGTTGGGGAGCTGGTAATACAAACCTCATGGT CAATTTTGGACCTATGTACTTCTGCAAACTGCATAGGCTGCCATAGTGCCACCCTGTCCCTGAAGTAGGA AGGTGATGACTCCATTGAAACTGAGGCTAGTGGCAGGTGTATCCCAAGGCCTGTCTCCATCCATTACATC TAAAGATAGTTGCAAAACAGCAGGCAGTAGGGACTGCTGCCAGCTCTGGATTATCAGCAGGTTTCTAACT CATGTCTCATGTCTCTTAGCCTCTACTAAGGCCCTTGCTCCATTAGGGATTAAGACAGAATCTGTGAATG AGCCCATAGTTTAAGCTGTAATTTGGGAAGAAACATTTAGCCAATAAAGTTGTTGAAGTGTCTAAGGG TGGGCTGCAAGTTGGGTACATCACATCAGTCTAAGTTCTATTATGTTTATGTGTGAGCTGAAGCCGCCAA GCACACTCTCCAAAGTGGCCAGCCAGGCCTCCAGTCTCCACACTGGTGAGTTCCATTTAATCAACCCA CAGGCCCGCCAGCCTCCCAAGTGTCTCCATATGGCACATGGTCTAATTTAAGGAATAAGTAACTGAAGC GGTTGAGCCTGTGGCTGATGATCCTCTTACAGAGAGAGCTTTCCTGAGTGCTCTGGCTCGTCTTCAGATG CGGTGCAAAAGCTGCTTGTGGTACAGGTTGGTTTTGTATGTTTCTTTTATTTCTTATATATCAGC AAGTGTCTGGGAATTCTATATGACAACTATGGAGCTGTTAGAGAGATGGTTGGGACCATGGTAAATAG TTGGATTTCTCATCTTCAGAATGGCAACCTACTTCTTTCTGCTCTCCAAGTACCTCGGAGTTTCTGAC ATTTTATTTCAAGAGTCTTGATTTTATTTCTAGTCTGTGGCCAGCTCTGGCGCTGCTTTGGCTCATCT GCACATCTCTAGAGTTCTGAGTTCTTCCACATAGCAGGCTTCTCACACGCGGTGTTTTGGGGTGACA TTACGTAAGGTGACTTGCCTGCTGATTGTTTTGTAACACTTGTGAGAACAAGCAACGTTTAGAGCCAGG AAACAGTAAACATTGCTTATGGTCAAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_028142
Insert Size:	1146 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC024628, AAH24628</u>
RefSeq Size:	2211 bp
RefSeq ORF:	1146 bp
Locus ID:	72181
UniProt ID:	<u>Q9CZ57</u>
Cytogenetics:	4 D1
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 at position 911; 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: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.