

Product datasheet for MC212123

Nsun3 (NM_178925) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Nsun3 (NM_178925) Mouse Untagged Clone

Tag: Tag Free

Symbol: Nsun3

Synonyms: 6720484A09Rik; AU022521

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >MC212123 representing NM_178925
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCTGACTCGGCTGAAAGCAAATCAGAGGGGAAGCTTGCCAAACAGCTATGCAGAGTTGTGTTGGATC
 AGTTTGACAAACAGTATTCGAAAGAACTTGGGGATTCTGGAGTACAGTAAGGGATGTTCTGATATCTCC
 ATCACTATGGCAATATGCCATCCTCTTCAACCGATTCAATTATCCCTTTGAAGTGGAAAAGGCCTTGCAT
 CTGAGGGGCTATCACACAGTCCTTCAAGGGGCTTTACCACATTATCCTAAATCAATGAAGTGTTACCTCA
 GCCGAACCCAGACCGAATGCCTTCAGAAAGACATCAGACTGGAAGCTTGAAAAAGTACTACCTCCTTAA
 TGCTGCTTCTCTTCTCCAGTACTGGCTCTGGAAGTGAAGACGGGGAGGCAGTCTGGACTTGTGTGCT
 GCTCCTGGAGGCAATCCGTAGCTCTGCTGCAATGTGCTTATCCAGGTTATCTTCTCTGTAAACGAGTATG
 ATCGCCCGAGAGGAAGATGGCTGAGACAGACGTTGGAATCTTTCATCCACAGCCTTTGATAAATGTAAT
 TAAAGTGTCTGAATTGGATGGCAGAGAAATGGGAGATGCCAGCCTGCAACATTTGACAAGGTGTTAGTT
 GACGCTCCATGTTCAAATGATCGAAGCTGGCTGTTCTCGTCGGACTCTCAGAAAGCTGCCTATAGGATCC
 ATCAAAGGAAGAATTTGCCTGTCCTACAGGTAGAACTCGTAAGGTCTGCAATTAAGCCTTGCGCCCCGG
 AGGGCTCCTCGTGTACTCTACATGCACGCTTTCCAAGGCTGAAATCAAGATGTGATCAGCGAGGTCTTA
 ACTTCCGACAGTAACATCGTACCTGTGGATATTAGTGGGATAGCAAGGACTTTCTCCCAAGACTTCACAT
 TTGCCCTACTGACCAGAAATGCAGCCTTTTGGTGATTCCGGAAGGGCAAGCTTGGGGCCCAATGTA
 TATAGCCAACTGAAAAAGGGATGAGTACAAGAAAAAGGCAAGGCGAATTTTGAAGCCATGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI


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ACCN:	NM_178925
Insert Size:	1047 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>NM_178925.3, NP_849256.1</u>
RefSeq Size:	1344 bp
RefSeq ORF:	1047 bp
Locus ID:	106338
UniProt ID:	<u>Q8CCT7</u>
Cytogenetics:	16 C1.3
Gene Summary:	Mitochondrial tRNA methyltransferase that mediates methylation of cytosine to 5-methylcytosine (m5C) at position 34 of mt-tRNA(Met). 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. 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.[UniProtKB/Swiss-Prot Function]