

Product datasheet for **MC221376**

Nsun2 (NM_145354) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsun2 (NM_145354) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nsun2
Synonyms:	D13Wsu123e; Misu
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221376 representing NM_145354
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCGGGCGGGCGGGGCCGGGTTCCAGCAGCCGCGCAGCCTGAGGGCGAGGAAGACGCCAGCG
 ACGGCGGCAGAAAGCGAGGCCAGGCGGGCTGGGAAGGTGGCTATCCCGAGATCGTAAAGGAGAACAAGCT
 CTTTCGAGCACTACTATCAGGAACTCAAGATCGTGCCAGAGGGAGAATGGGACCAATTCATGGAGTCACTC
 CGAGAACCTCTCCAGCCACACTGAGAATCACTGGGTACAAAAGCCATGCCAAAGAGATTCTCCATTGCT
 TGAAGAACAAGTACTTTAAGGAGTTGGAGGACCTGGAAGTAGATGGACAGAAAGTTGAAGTTCCACAACC
 ACTAAGCTGGTACCCTGAAGAATTGCCTGGCATACAAACCTTAAGTCGAAAAATCTTGAGGAAGTCCCCG
 TTGTTGGCAAAGTCCATCAGTTCCTGGTCAGCGAGACTGAGTCTGGAACATCAGCCGCCAGGAGGCTG
 TCAGCATGATCCCCCACTGCTGCTCAACGTGGAGCCACACCATAAGATCTTAGACATGTGTGCAGCCCC
 TGGATCCAAGACCACACAGTTAATTGAAATGTTGCATGCAGACATGAGTGTGCCCTTCCAGAGGGATTT
 GTAATCGCAAATGACGTGGACAACAAGCGCTGCTATCTGCTCGTCCATCAGGCCAAAAGGTTGAGCAGTC
 CCTGCATCATGGTGGTAAACCATGACGCATCCAGCATACTAGACTTACAGTAGATGTGGACGGAAGGAA
 AGAGATTCTCTTATGATCGAATTTTATGTGATGTCCCTTGCACTGGCGATGGCACAATGAGAAAAAC
 ATTGATGTCTGGAAGAAATGGACAACCTTAAACAGCTTGCACTCCATGGCCTGCAGCTTCGGATTGCAA
 CTCGAGGTGCTGAGCAGCTGGCGGAAGGTGGCAGGATGGTGTATTCCACGTGTTCCCTGAACCCCGTGA
 GGATGAAGCAGTATCGCAGCTCTGCTAGAGAAGAGTGAAGGAGCTCTTGAGCTTGCTGATGTGTCTGCT
 GAGTTGCCAGGACTGAAGTGGATGCCTGGAGTCTCACAGTGAAGGTGATGACTAGAGACGGGCAGTGGT
 TTGCAGACTGGCATGAGGTTCCCGAGGGCAGGCATACACAAATCCGACCTACCATGTTCCACCAACGGA
 CCTGGAGAAGCTACAGGCAATGCATCTAGAGCGATGCCTTCGAATCCTGCCCCATCATCAGAATACTGGA
 GGGTCTTTGTGGCAGTATTGGTCAAGAAAGCACAATGCCGTGGAACAACGTCAGCCCAAGGTCCAGA
 ATAAATCTGCAGAAGCCAGAGAACCAGGGTATCCAGCCATGTGGCTGCCACAGAGGGAAATCCCACTGA
 CCAGTCTGAGCTGGAAGTCAAGTATAAAGTGGAGCTGGTACTCAGAAACAGCTCACAACACTGAGAAC
 ACAGAGAGCAATGAGAAGAAAGATGGCGTGTGGCCCTCCTCCATCAAAGAAAATGAAGTTGTTTGGAT
 TAAAGAAGATCCATTTGATTCATTCTGAAGATGATCCTTTATTTCCACCTATTGAGAAGTTTATGC
 CTTGGATCCTTCATTCAGGATGAATCTGTTAACCAGAACACAGAAGGAAAGAGCGGCAGCTTTAT
 ATGGTCTCCAAGGAGCTGAGGAATGACTGCTGAACAACAGCGAGAAGATGAAGTCAATTAACACTGGGA
 TAAAAGTCTGGTGTGAAATAACAGTGGTGAAGAATTCGATTGTGCATTCGGTTTGGCACAGGAGGGAA
 ATATACATTGATCCATTTATCAATTAAGAATCATCACTGTATCAATGGAAGACGTGAAGACACTGTTG
 ACCCAGGAGAACCATTCTTTAGAAAAGTGAAGTGGAGGCTACAGTCAAGTCAAGGACCTTGCAAAGG
 GAAGTGTGTGCTGAAGTATGAGCCAGATTCTGCGAATCCAGACACCCTCCAGTGCCCCATCGTGTGTG
 TGGGTGGCGGGAAAGGCCTCTATTGAACTTTGTGCCAAAAATGAGCGGCTTCATTATCTCAGGATG
 ATGGGTCTGGAGTACTGGGAGAAAAGAAGAAAGAGGGAGTCACTTACCAATGAGAATGCTGCCAGCC
 CAGAGCAGCCTGGAGATGAGGATGCCAAGCAGACAGCACAAAGACCCTGCGTCCCAGACTCCGTCCTGG
 CTGTGATGCAGCTGCAGCTGAGCCATCCCG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
 ACCN: NM_145354
 Insert Size: 2274 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_145354.5 , NP_663329.3
RefSeq Size:	4280 bp
RefSeq ORF:	2274 bp
Locus ID:	28114
UniProt ID:	Q1HFZ0
Cytogenetics:	13 35.55 cM
Gene Summary:	RNA methyltransferase that methylates tRNAs, and possibly RNA polymerase III transcripts. Methylates cytosine to 5-methylcytosine (m5C) at positions 34 and 48 of intron-containing tRNA(Leu)(CAA) precursors, and at positions 48, 49 and 50 of tRNA(Gly)(GCC) precursors (By similarity). May act downstream of Myc to regulate epidermal cell growth and proliferation. Required for proper spindle assembly and chromosome segregation, independently of its methyltransferase activity.[UniProtKB/Swiss-Prot Function]