

Product datasheet for **MC217781**

Nsun2 (BC013625) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsun2 (BC013625) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nsun2
Synonyms:	D13Wsu123e; Misu
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC013625
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGTAAACCATGACGCATCCAGCATACCTAGACTTACAGTAGATGTGGACGGAAGGAAAGAGATTC
TCTTCTATGATCGAATTTTATGTGATGTCCCTTGCACTGGCGATGGCACAATGAGAAAAACATTGATGT
CTGGAAGAAATGGACAACCTTAAACAGCTTGACAGCTCCATGGCCTGCAGCTTCGGATTGCAACTCGAGGT
GCTGAGCAGCTGGCGGAAGGTGGCAGGATGGTGTATTCCACGTGTTCTTGAACCCCGTGGAGGATGAAG
CAGTGATCGCAGCTCTGCTAGAGAAGAGTGAAGGAGCTTTGAGCTTGCTGATGTGTCTGCTGAGTTGCC
AGGACTGAAGTGGATGCCTGGAGTCTCACAGTGGAAAGTTCATGACTAGAGACGGGAGTGGTTTGCAGAC
TGGCATGAGGTTCCCGAGGCAGGCATACACAAATCCGACCTACCATGTTCCACCAACGGACCTGGAGA
AGCTACAGGCAATGCATCTAGAGCGATGCCTTCGAATCCTGCCCCATCATCAGAATACTGGAGGGTTCTT
TGTGGCAGTATTGGTCAAGAAAGCACCAATGCCGTGGAACAAACGTGAGCCCAAGTCCAGAATAAATCT
GCAGAAGCCAGAGAACCCAGGGTATCCAGCCATGTGGCTGCCACAGAGGGAAATCCCACTGACCAGTCTG
AGCTGGAAGTCAAGATGATAAAGTGGAGTGGTACTCAGAAACAGCTCACAACACTGAGAACACAGAGAG
CAATGAGAAGAAAGATGGCGTGTGTGGCCCTCCTCCATCAAAGAAAATGAAGTTGTTGGATTTAAAGAA
GATCCATTTGATTCATTCCTGAAGATGATCCTTTATTCCACCTATTGAGAAGTTTTATGCCTTGGATC
CTTCATTCGCGAGGATGAATCTGTTAACCCGAACCACAGAAGGAAAGAAGCGGCAGCTTTATATGGTCTC
CAAGGAGCTGAGGAATGTACTGCTGAACAACAGCGAGAAGATGAAGGTCATTAACACTGGGATAAAAGTC
TGGTGTGCGAAAATAACAGTGGTGAAGAATTCGATTGTGCATTCCGTTTGGCACAGGAGGGAATATACAT
TGTATCCATTTATCAATTCAAGAATCATCACTGTATCAATGGAAGACGTGAAGACACTGTTGACCCAGGA
GAACCCATTCTTTAGAAAACCTGAGCAGTGAGGCCCTACAGTCAAGTCAAGGACCTCGCAAAGGGAAGTGT
GTGCTGAAGTATGAGCCAGATTCTGCGAATCCAGACACCCTCCAGTGCCCATCGTGCTGTGTGGGTGGC
GGGAAAGGCCTCTATTGAACTTTTGTGCCAAAAATGAGCGGCTTCATTATCTCAGGATGATGGGTCT
GGAGGTAAGGAGAAAAGAAGAAAGAGGGAGTCAATTCTTACCAATGAGAATGCTGCCAGCCAGAGCAG
CCTGGAGATGAGGATGCCAAGCAGACAGCACAAGACCCTGCGTCCAGACTCCGTCCTGGCTGTGATG
CAGCTGCAGCTGAGCCATCCCGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: BC013625

Insert Size: 1566 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.

RefSeq: [BC013625](#), [AAH13625](#)

RefSeq Size: 2325 bp

RefSeq ORF: 1565 bp

Locus ID: 28114

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]