

## Product datasheet for **MR224834**

### **Nsun5 (NM\_145414) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nsun5 (NM_145414) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nsun5
Synonyms:	9830109N13Rik; AI326939; Nol1r; Wbscr20; Wbscr20a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224834 representing NM\_145414  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCTGTACGCGCCCGCCGGCGGTGCTGGCCGGCTGAAAGCCGCCAGGGCTCCCTCAAGGGGT  
 TGGTGTATTCCAGCAACTTCCAGAACCTGAAGCAGTTGTACGCTCTGGTGTGCGAGACGCAGCGCTACTC  
 GGCGTGTGGACGCTGTATCGCCAGTCTGGGCTCCTTCGCGCCGAGAAGAAGCTGAGACCGCACCTT  
 GCCAAGGTGCTAGTGTATGAATTATTGCTGGGGAAGGGTTCGAGGGGGTGGAGCCGATGGAAGGCTC  
 TGCTGGGCGGCACCAGGCAAGGCTCAAGGCTGAGCTGGCCGACTCAAGGTTTCATCGGGGTGTAGCCG  
 AAATGAGGACCTGTTGCAAGAGAGCTCCAGACCTGGCCAAGCCTACCAGGTACCACGGTTCGTGCGTGTG  
 AACACGCTCAAGACCCGCCCTGAGGATGCAATCGATTATTTCAAGAGACAAGTTTCTCCTACCAGGGTC  
 GGGCTTCCAGCCTGGAAGACTTGCAGCTCTCAAGGGGCAGCATTTTCTTTTGGATCCCTTGTGCTGCTGA  
 GCTTCTTGTATTTCTGCACAGACAGATCTGCACGAGCATCCACTCTACCGTGTGGCCATCTCATCCTG  
 CAGGACAAGGCCAGCTGCCTCCCAGCCATGCTGCTGTCCCCCGCCAGGCTCCCATGTCATTGATGCCCT  
 GTGCTGCCCTGGTAACAAGACCAGCTACATTGCAGCCCTTCTAAGAACCAGGGGAAGATCTTTGCTTT  
 CGACCAGGACGCTAAGCGGCTGGCAGCCATGGCGACGTTGGTGGCTCGGGCTGGGGTCTCTTGTGCGAG  
 TTAGCAGAGAAGGACTTCTGACAGTCTCTCCCTTGACCAGCGTTACAGCCAGGTCCAGTACATCTTGC  
 TGGATCCTTCTTGTAGTGGCTCTGGCATGCTGAGCCGGCAGCTGGAGGAACATGGGAAGGCACACCTAG  
 CAAGGAGCGCTTGAGGCCTTGGCCGGTTCAGCAGCGGGCTCTGTGCCATGCATTAAGTTCCCTCT  
 CTGACGCGCTAGTCTACTCCACGTGTTCCCTTGGCAAGAAGAGAATGAAGACGTGGTCCAGGAGGCTC  
 TACAGACAACCTCGGGACATTCAGTTGGCTCCTGCTACCCACATGGCCTCACCGAGGTTGATGATC  
 CTTTCCAGGGTCTGAACACTGCCTCCGGGCTTCCCTGAGACCAGCTCACTGGTGGCTTCTTATTGCT  
 GTGTTTGAACGTGCAGAGGTGGTACCAACCCAGCCCCACAGACCAGTGAATGGATCCAGAACCTCTCA  
 GCCAAGTCCCAAAGAGAAAGAGAAGACGCAAGCAGCAGTTGGTCCAGCATGCAGCCAAGCACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224834 representing NM\_145414  
 Red=Cloning site Green=Tags(s)

MGLYAAAAVLAGVESRQGLKGLVYSSNFQNLKQLYALVCETQRYSAVLDAVIASAGLLRAEKKLRPHL  
 AKVLVYELLLGKFRGGGRWKALLGRHQARLKAELARLKVHRGVSARNEDLLQESSRPGQAYQVPRFVRV  
 NTLKTRPEDAIDYFKRQGF SYQGRASSLEDLRALKGQHFLLDPLLPELLVFPAQTDLHEHPLYRAGHLIL  
 QDKASCLPAMLLSPPPGSHVIDACAAPGNKTSYIAALLKNQGKIFAFDQDAKRLAAMATLVARAGVSCCE  
 LAEKDFLTVSPSDQRYSQVYIILLDPSCSGSMLSRQLEEHGEGTPSKERLQALAGFQQRALCHALRFPS  
 LQRLVYSTCSLQEQENEDVVQEALQHNSGTFRLAPVLPWPHRGLSTFPGEHCLRASPETTLTGGFFIA  
 VFERAEEVPTAPQTDAMDPEPLSQVPKRKRRAAAGVSMQPST

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9045\\_h12.zip](https://cdn.origene.com/chromatograms/mm9045_h12.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_145414

ORF Size: 1395 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM\\_145414.2](#), [NP\\_663389.2](#)

RefSeq Size: 2242 bp

RefSeq ORF: 1398 bp

Locus ID: 100609

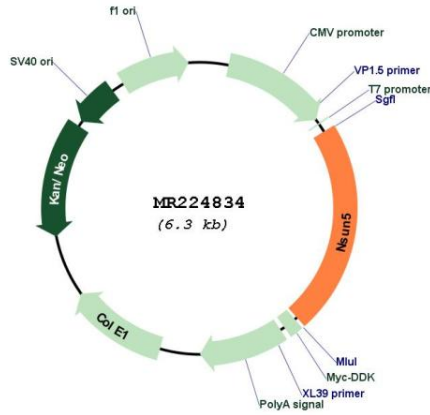
UniProt ID: [Q8K4F6](#)

Cytogenetics: 5 G2

MW: 51.5 kDa

Gene Summary: S-adenosyl-L-methionine-dependent methyltransferase that specifically methylates the C(5) position of a cytosine in 28S rRNA.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR224834