

## Product datasheet for **MC228691**

### **Nsun7 (NM\_001302834) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nsun7 (NM_001302834) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nsun7
Synonyms:	4921525L17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC228691 representing NM\_001302834  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGGACCCAACGAGTGAAAGGGACCTTTTTGACCAAGAAAACATGGAGGAGATCTCCAACTCGCTT  
 CCCTGGAGATGTCGGGGGATGTAGTCGCCAATACAACTTTCAACCGTGTCTAGAAAAACCCAGCTA  
 CCCAGACTCCGTGTACGTTACGGCAGCGAACATTTTTTCAGGGTATTTCGGATCCAAAGTCCGCAGACAAA  
 GTCATAATAAATTACGGAAGTGAACCCCTGCAGCCCTCCTCCTCCGCTCCGAGGATGAATCTTTCCAGC  
 GCTTGTCTATGAGTTGGCTTTTCAGTACCCTGAAGTATCAAGATATTTTGGAAAGTATATTAATAGATAG  
 CTATATCTTCTCAAGTACCACAATCGCAAGTCAAGTCAAGTCTTATCATTGTGATGCTGTATGACTTC  
 CAAGACAGAAAATCCAGCCCCGATCCTTTCCGAGAATGAAGAGACCATACCAGAAGTTCAAGAAGTCCG  
 AGAACCTTCTAAACGGCTTAAAGACAAAATTTGGCTGCAGCCTGGCGAGATGTCGAATCAAACACGACGC  
 CCTCTCGATTTACCATATTCTGCCAGAGACAGTTAGGAAACAGGAACAAAGGGCCTCAACTTTGCCTCTT  
 TATGCTTGGATAAATACCAGTAAAATAAGCCTTGAAGAAGTCTATAATAATTTGAGGAGGAAAGGTTACT  
 CTAAGTCAAGTCTATAACGAGTGTCAATGAGAAAGTCTATGCAGTAGACCAGCACTGCTCAATGTCTT  
 AATTTTCCAGCTCATCTCAAAACAGACCTTTAAACATAGATCTCATAAAAGACTATAAACTTATTTTC  
 CAGGACAAATCTCGAAGTCTTGGCGTCCACTCTGTGAAGGCTTTGATAAACATCGATGATGATGTCTAA  
 TGGTCAACACGGGTTTCGTGGTACACAGTTGCCCATATGTCATCTTAACAAGTGGTCACACTTCGAAAAT  
 CTTTGTATGTGGAATAACAAGAAGAGAAGGATTTTAAATGCGAGGAACTTTTACAAGAATGGGATGT  
 CAAAATATTGAAACTTACGAAACATTTCTTAGCATTGAATCCAAAGATCACCGGTTACAGAATGTGA  
 AGGTCATTCTGTTGCTACCTCGCTGTTCCAGCCTCGGTGCAGCAACCCAGTGGAAATTCATTCTAAATGA  
 ACACGAAGTTACCAAAGTTCAAGCAATTGTCTATTGCACATGTTCTGTTTCTAAAGAGGAAAATGAAGAC  
 GTTGTGAGAAAAGCACTGGAATATCAAAGCTCAGGGGTTAAAATGCAACCTTACAGACTCAGTCTCCTG  
 TTCTCCCACTGTGCACCTAAAAGAGATAGAAGTGTCTATGGATAGATTCTTTCAGATTGGAACCATCTGA  
 TATGAACAATGGCTGTTTTCTTCTATCTTAACAAGAGAGCGGGACCCATCTGAGACAGTGTCAAGTAAA  
 GACGTTCTGGCCAGGGCAGCAGCCAAAGGTCTACTGGAAGGGGTTGAGGTTGGGAAGACGCTCAAAAGGG  
 ACAAGAAGAGGAAAAATCGAAAGCACTGCCATCCAGGGCTCCTCACCATGGGGACCCACTTCGCGACCA  
 TTTGGCAGTGGATGGTAACGACACCAGCAACGTCCAAATGAAAATCTCCGAGCTCTGCACCGAGAAAGC  
 AAGATAAGTACTTCAACAAAAATGTCCGCCAGCAAGACTGTGTCTCAAGCCGGCACTTCTCCCAAG  
 TCAGAAAGCCCAGCAAGCCTTTATCGACCCCACTGGTGAGGAATTTTCCAGCCGGTAGAAAGGCCAAC  
 GAACCTTTGTGAGAGCGCGGCCAGAAGGCAAGTGATTCCTTTGAAACCAATTGAAATCGTTCTGCCGCCA  
 GTGATATCCATTGAGTTCCAGGGGCCAGGGTTTCAGATGCCAGCCACCCATTTTATTACCGCTTCA  
 TTGGATCAAAGGTTGGTGTGCCCGCTATCTTACATCCTCAACATCCAGAAGAAAGGAGAAGGTTAAGGA  
 GAGCAAACTTCTCCACGTCAGGCACCTAGACCATGGCTC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001302834

**Insert Size:** 2076 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001302834.1, NP_001289763.1</u>
<b>RefSeq Size:</b>	3643 bp
<b>RefSeq ORF:</b>	2076 bp
<b>Locus ID:</b>	70918
<b>UniProt ID:</b>	<u>Q14AW5</u>
<b>Cytogenetics:</b>	5 C3.1
<b>Gene Summary:</b>	<p>This gene encodes a member of the NOL1/NOP2/sun domain RNA methyltransferase family. Mice with a mutation in this gene exhibit male sterility due to impaired sperm motility. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Nov 2014]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the central coding region and differs in the 3' exon structure, resulting in a different 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a distinct C-terminus and is shorter than isoform 1.</p>