

Product datasheet for **MR230902**

Nsun7 (NM_001302834) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide
Sequence:

>MR230902 representing NM_001302834
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGACCCAACGAGTGAAAGGGACCTTTTTGACCAAGAAAACATGGAGGAGATCTCCAACTCGCTT
 CCCTGGAGATGTCGGGGGATGTAGTCGCCAATACAACTTTCAACCGTGTCTAGAAAAACCCAGCTA
 CCCAGACTCCGTGTACGTTACGGCAGCGAACATTTTTTCAGGGTATTTCGGATCCAAAGGTCGCCAGACAAA
 GTCATAATAAATTACGGAAGTGAACCCCTGCAGCCCTCCTCCTCCGCTCCGAGGATGAATCTTTCCAGC
 GCTTGTCTATGAGTTGGCTTTTCAGTACCCTGAAGTATCAAGATATTTGGAAAGTATATTAATAGATAG
 CTATATCTTCTCAAGTACCACAATCGCAAGTCAAGTCAAGTCTTATCATTGTGATGCTGTATGACTTC
 CAAGACAGAAAATCCAGCCCCGATCCTTTCCGAGAATGAAGAGACCATACCAGAAGTTCAAGAAGTCG
 AGAACCTTCTAAACGGCTTAAGACAAAATTTGGCTGCAGCCTTGGCGAGATGTCGAATCAAACACGACGC
 CCTCTCGATTTACCATATTCTGCCAGAGACAGTTAGGAAACAGGAACAAAGGGCCTCAACTTTGCCTCTT
 TATGCTTGGATAAATACCAGTAAAATAAGCCTTGAAGAAGTCTATAATAATTTGAGGAGGAAAGGTTACT
 CTAAGTCAAGTCTATAACGAGTGTCAATGAGAAAGTCTATGCAGTAGACCAGCACTGCTCAATGTCTT
 AATTTTCCAGCTCATCTCAAAACAGACCTTTTAAACATAGATCTCATAAAAGACTATAAACTTATTTTC
 CAGGACAAATCTCGAAGTCTTGGCGTCCACTCTGTGAAGGCTTTGATAAACATCGATGATGATGTCTAA
 TGGTCAACACGGGTTTCGTGGTACACAGTTGCCCATATGTCATCTTAACAAGTGGTCACACTTCGAAAAT
 CTTTGTATGTGGAATAACAAGAAGAGAAGGATTTTAAATGCGAGGAACTTTTTACAAGAATGGGATGT
 CAAAATATTGAAACTTACGAAACATTTCTTAGCATTGAATCCAAAGATCACCGGTTACAGAATGTGA
 AGGTCATTCTGTTGCTACCTCGCTGTTCCAGCCTCGGTGTCAGCAACCCAGTGAATTCATTCTAAATGA
 ACACGAAGTTACCAAAGTTCAAGCAATTGTCTATTGCACATGTTCTGTTTCTAAAGAGGAAAATGAAGAC
 GTTGTGAGAAAGCACTGGAATATCAAAGCTCAGGGGTTAAAATGCAACCTTACAGACTCAGTCTCCTCTG
 TTCTCCCACTGTGCACCTAAAAGAGATAGAAGTGTCTATGGATAGATTCTTTCAGATTGGAACCATCTGA
 TATGAACAATGGCTGTTTTCTTCTATCTTAACAAGAGAGCGGGACCCATCTGAGACAGTGTCAAGTAAA
 GACGTTCTGGCCAGGGCAGCAGCCAAAGGTTACTGGAAGGGGTTGAGGTTGGGAAGACGCTCAAAGGG
 ACAAGAAGAGGAAAAATCGAAAGCACTGCCATCCAGGGCTCCTCACCATGGGGACCCACTTCGCGACCA
 TTTGGCAGTGGATGGTAACGACACCAGCAACGTCCAAATGAAAATCTCCGAGCTCTGCACCGAGAAAGC
 AAGATAAGTACTTCAACAAAATGTCCGCCAGCAAAGACTGTGTCTCAAGCCGGCACTTCTCCCAAG
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 GAACCTTTGTGAGAGCGCGGCCAGAAGGCAAGTGATTCCTTTGAAACCAATTGAAATCGTTCTGCCGCCA
 GTGATATCCATTGAGTTCCAGGGGCCAGGGTTTCAGATGCCAGCCACCCATTTTATTACCGCTTCA
 TTGGATCAAAGGTTGGTGTGCCCGCTATCTTACATCCTCAACATCCAGAAGAAAGGAGAAGGTTAAGGA
 GAGCAAACTTCTCCACGTCAGGCACCTAGACCATGGCTC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230902 representing NM_001302834
 Red=Cloning site Green=Tags(s)

MLDPTSERDLFDQENMEEISQLASLEMSGDVVANTNSSTVVLEKPSYPDSVYVTAANIFQGIRIQRSPDK
 VIINYGSEPLQPSSSRSEDES FQRLSYELAFSTLKYQDILESILIDSYIFSSTTIASQLNSLIIVMLYDF
 QDRKFQPRILSENEETIPEVQEVENLLNGFKTKLAAALARCRIKHDALSIYHILPETVRKQEQRASTLPL
 YAWINTSKI SLEEVYNNLRKGYSKVKSITSVNEKVYAVDQHC FNVLIFPAHLKTDLLNIDLKDYKLIF
 QDKSRSLAVHSVKALINIDDDVLMVNTGSWYTVAHMSILTSGHTSKIFVCGIQQEEKDFNARKLFTRMGC
 QNIEILHETFLSIESKDHRLQNVKIVILLPRCSSLGVSNPVEFILNEHEVTKVQAIIVYCTCSVSKEENED
 VVEKALEYQSSGVKMPYRLLSPPVLPCTLKEIELSMDRFFRLEPSDMNNGCFLSILTRERDPSETVSVK
 DVLARAAAKGLLEGVEVGKTLKRDKRKKSKALPSRAPHHGDPLRDHLAVDGNDSNVQMKISELLHRES
 KISTSTKMSAPAKTVSQAGTSSQVRKPSKPLSTPLVRNFSRPVERPTNFVRARPEGKVIPLKPIEIVLPP
 VIFPLSSQGPVQMPATHFYRFRIGSKVGVPRYLTSSTSRKKEVKKESTTSSHVRHPRPWL

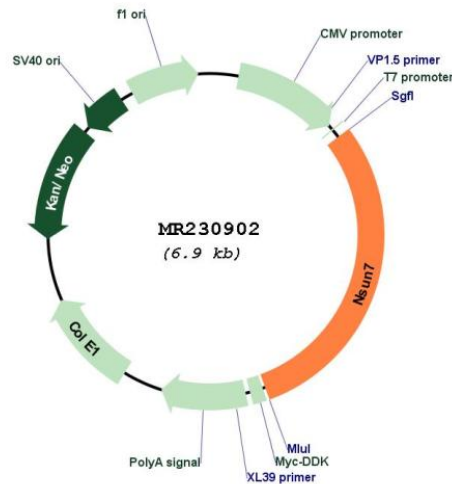
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001302834

ORF Size: 2073 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_001302834.1](#), [NP_001289763.1](#)

RefSeq Size: 3643 bp

RefSeq ORF: 2076 bp

Locus ID: 70918

UniProt ID: Q14AW5

Cytogenetics: 5 C3.1

MW: 78.6 kDa

Gene Summary: 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]