

Product datasheet for **MG224506**

Nsun7 (NM_027602) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsun7 (NM_027602) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nsun7
Synonyms:	4921525L17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG224506 representing NM_027602
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGACCCAACGAGTGAAAGGGACCTTTTTGACCAAGAAAACATGGAGGAGATCTCCAACTCGCTT
 CCCTGGAGATGTCGGGGGATGTAGTCGCCAATACAACTTTCAACCGTGTCTAGAAAAACCCAGCTA
 CCCAGACTCCGTGTACGTTACGGCAGCGAACATTTTTTCAGGGTATTTCGGATCCAAAGGTCGCCAGACAAA
 GTCATAATAAATTACGGAAGTGAACCCCTGCAGCCCTCCTCCTCCGCTCCGAGGATGAATCTTTCCAGC
 GCTTGTCTATGAGTTGGCTTTTCAGTACCCTGAAGTATCAAGATATTTTGGAAAGTATATTAATAGATAG
 CTATATCTTCTCAAGTACCACAATCGCAAGTCAAGTCAAGTCTTATCATTGTGATGCTGTATGACTTC
 CAAGACAGAAAATCCAGCCCCGATCCTTTCCGAGAATGAAGAGACCATACCAGAAGTTCAAGAAGTCG
 AGAACCTTCTAAACGGCTTAAGACAAAATTTGGCTGCAGCCTTGGCGAGATGTCGAATCAAACACGACGC
 CCTCTCGATTTACCATATTCTGCCAGAGACAGTTAGGAAACAGGAACAAAGGGCCTCAACTTTGCCTCTT
 TATGCTTGGATAAATACCAGTAAAATAAGCCTTGAAGAAGTCTATAATAATTTGAGGAGGAAAGGTTACT
 CTAAGTCAAGTCTATAACGAGTGTCAATGAGAAAGTCTATGCAGTAGACCAGCACTGCTCAATGTCTT
 AATTTTCCAGCTCATCTCAAAACAGACCTTTTAAACATAGATCTCATAAAAGACTATAAACTTATTTTC
 CAGGACAAATCTCGAAGTCTTGGCGTCCACTCTGTGAAGGCTTTGATAAACATCGATGATGATGCTCTAA
 TGGTCAACACGGGTTTCGTGGTACACAGTTGCCCATATGTCATCTTAACAAGTGGTCACACTTCGAAAAT
 CTTTGTATGTGGAATAACAAGAAGAGAAGGATTTTAAATGCGAGGAACTTTTACAAGAATGGGATGT
 CAAAATATTGAAACTTACGAAACATTTCTTAGCATTGAATCCAAAGATCACCGGTTACAGAATGTGA
 AGGTCATTCTGTTGCTACCTCGCTGTTCCAGCCTCGGTGTCAGCAACCCAGTGGAAATTCATTCTAAATGA
 ACACGAAGATAAAAGTTTACTTCAAGATCTTTCTCAAGGTGGTCTACCGAAAGATAAACTCGAGACTTTG
 GTTCAGCAGCAGTTTGAACAGCTAACACACGCAATGAAATTTACCAAAGTTCAAGCAATTGTCTATTGCA
 CATGTTCTGTTTCTAAAGAGGAAAATGAAGACGTTGTTGAGAAAGCACTGGAATATCAAAGCTCAGGGGT
 TAAAATGCAACCTTACAGACTCAGTCTCCTGTTCTCCCACTGTGCACCCTAAAAGAGATAGAAGTGTCT
 ATGGATAGATTCTTCAGATTGGAACCATCTGATATGAACAATGGCTGTTTTCTTCTATCTTAACAAGAG
 AGCGGGACCCATCTGAGACAGTGTCAAGTGAAGACGTTCTGGCCAGGGCAGCAGCCAAAGGTCTACTGGA
 AGGGGTTGAGGTTGGGAAGACGCTCAAAAGGGACAAGAAGAGGAAAAAATCGAAAGCACTGCCATCCAGG
 GCTCCTCACCATGGGGACCCACTTCGCGACCATTGGCAGTGGATGGTAACGACACCAGCAACGTCCAAA
 TGAATACTCCGAGCTTTGCACCGAGAAAGCAAGATAAGTACTTCAACAAAAATGTCGGCCCCAGCAAA
 GACTGTGTCTCAAGCCGGCACTTCTCCCAAGTCAGAAAGCCAGCAAGCCTTTATCGACCCCACTGGTG
 AGGAATTTTTCCAGGCCGGTAGAAAGGCCAACGAATTTGTGAGAGCGCGGCCAGAAGGCCAAAGTGATTC
 CTTTGAACCAATTGAAATCGTTCTGCCGCCAGTGATATCCATTGAGTTCCAGGGGCCAGGGTTCA
 GATGCCAGCCACCATTTTTATTACCGCTTCATTGGATCAAAGAGATTCTGCTCTTTTAGGACTCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG224506 representing NM_027602
 Red=Cloning site Green=Tags(s)

MLDPTSERDLFDQENMEEISQLASLEMSGDVVANTNSSTVVLEKPSYPDSVYVTAANIFQGIRIQRSPDK
 VIINYGSEPLQPSSSRSEDES FQRLSYELAFSTLKYQDILESILIDSYIFSSTTIIASQLNSLIIVMLYDF
 QDRKFQPRILSENEETIPEVQEVENLLNGFKTKLAAALARCRIKHDALSIYHILPETVRKQEQRASTLPL
 YAWINTSKIISLEEYVNNLRRKGYSKVKISITSVNEKVYAVDQHC FNVLIFPAHLKTDLLNIDLKDYKLIF
 QDKSRSLAVHSVKALINIDDDVLMVNTGSWYTVAHMSILTSGHTSKIFVCGIQQEEKDFNARKLFTRMGC
 QNIEILHETFLSIESKDHRLQNVKIVILLPRCSSLGVSNPVEFILNEHEDKSLLQDL SQGGLPKDKLET
 VQQQFEQLTHAMKFTKVQAIIVYCTCSVSKEENEDVVEKALEYQSSGVKMQPYRLSPPVLPCTLKEIELS
 MDRFFRLEPDMNNGCFLSILTRERDPSETVSVKDV LARAAAKGLLEGVEVGKTLKRDKRKKSKALPSR
 APHHGDPLRDHLAVDGNDSNVQMKISELLHRESKISTSTKMSAPAKTVSQAGTSSQVRKPSKPLSTPLV
 RNF SRPVERPTNFVRARPEGKVIPLKPIEIVLPPVIFPLSSQGPRVQMPATHFYRFIGSKRFCSSGLF

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_027602

ORF Size: 2100 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_027602.2](#), [NP_081878.1](#)

RefSeq Size: 2552 bp

RefSeq ORF: 2103 bp

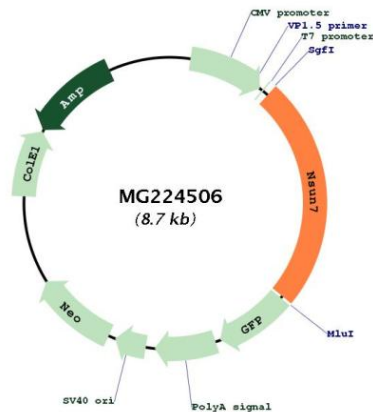
Locus ID: 70918

UniProt ID: [Q14AW5](#)

Cytogenetics: 5 C3.1

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]

Product images:



Circular map for MG224506