

Product datasheet for **RC207175**

NSUN7 (NM_024677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSUN7 (NM_024677) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NSUN7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207175 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGAATTCCACGGGCGAACTGGAGTTTTCGAACGAAGAAGATCCCGAGATCATCTCCAACTCACTT
 CCCTGCCTCTGTCCGGTGGGAAAAGCTCAGCTGGTGTGCCGAAAAAACGGGCTATCCGGACTCCGTTTA
 TGTTCATGGCAGCCAACATTTTTTCAGGGTATTTCGAATCGAAAAAGTCGGCACAGAAAGTCTTAATCAAGTAT
 GGAATGAACCCCTGCGGTCTTGTCCGAGTCTGAGGATCAGTCTTTCAGCGTTTGTCTTATGAGCTGG
 CTTTCAGTGCCCTGAAATATCAAGATATTTTGGAACTATATTGATAGACAGCTGTATCTTCCAAAGTAC
 CACAATACCAGATCATTGAGCAGTCTTATTATTGTGATGCTATATGATTTCCAAGATAGAAAATTTCAA
 ACTCGTGTCTTCTGATAATGAAGAGCCCATATCAGAAGTTCAGAAGTAGAGAACCTTCTAACAGTT
 TTAAGATAAAATTGGCTGCAGCATTGGCAAGATGTCGAATCAAGCATGATGCCCTTCAATTTACCACAT
 CCTTCCAGAAACAGTTAGGAAACAGGAATAAGGGCCTCCACTTTACCCTTTATGCTTGGATAAACT
 TGTAATAACAGCCCTGAAGAAAGTTATAATAATTTGAAGAGAAGAGGCTATAATAAAGTCAAATCTGTAT
 TGCATATTGATGATAAAGTCTTGTGTGGATCAACATTGCTATGATGTCTTAATTTTTCCATCTCATCT
 TAAAAATGATCTTATAAATATAGATCTTTTCAAAGATTACAACTTATATTTTCAGGACAAATCTCGAAGT
 CTTGCTGTCCATTCTGTAAGGCTTTATTAATATGGATGATGATGTCTTAATGGTCAATACAGGTTTCA
 GGTACACAGTTGGCCACATGTCAATTTTAAACAATAATAACCTCAAAGTATTTGTGTGGAGTACA
 ATCACAAGCTAAGGATCTGACTTGAAGACCCTTTTCAAAAAATAGGATGTAATAAATTTGAAATACTT
 CATGAGAAATTTATTAACATTGAATCAAAGGATCACAGGTTACAGAAAGTTAAAGTATTTTGTGCTAC
 CTCGTTGTTTCAGGACTGGGTGTTAGTAATCCAGTAGAATTTATTTTAAATGAACATGAAGATACAGAAT
 CCTTAAAGATCACTCTCAAGGAGGATCTCAGTGGACAACTTACGTTCTTGTCTAACAGCAGATGAA
 CAGCTAACACATGCAATGAAATTTACTAAAGCTCAAGCAGTTGTTTACTGCACATGTTTCAGTTTTTCCAG
 AAGAAAATGAAGCTGTTGTTAAGAAAGCACTGGAATTTCAAGACCTTGGGAATAAAGGACAACTTACAG
 CGGACCCTTCTGAGACAGTGTCTG

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207175 protein sequence
 Red=Cloning site Green=Tags(s)

MLNSTGELEFSNEEDPEIISQLTSLPLSGGKSSAGVPEKTGYPDSVYVMAANIFQGIRIEKSAQKVLIKY
 GNEPLRSLSESEDQSFQRLSYELAFSALKYQDILETILIDSCIFPSTTIPDHLSSLIIIVMLYDFQDRKFQ
 TRVLSDNEEPISEVQEVENLLNSFKIKLAAALARCRIKHDALSIYHILPETVRKQELRASTLPL YAWINT
 CKISPEEVYNNLRKRGYNKVKSVLHIDDKVFAVDQHCYDVLIFPSHLKNDLINIDLFDKYKLIQDKSRS
 LAVHSVKALLNMDDDLVMTNGSWYTVAHMSILTNNTSKVFCVGVQSQAKDPDLKTLFTKIGCKNIEIL
 HEKFINIESKDHRLQKVKVILLPRCSGLGVSNPVEFILNEHEDTEFLKDHSSQGGISVDKLVLAQQQYE
 QLTHAMKFTKAQAVVYCTCSVFPEENEAVVKALEFQDLGNKQPYSGLLLRQCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6514_h04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:


ACCN: NM_024677

ORF Size: 1425 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_024677.3](#), [NP_078953.2](#)
RefSeq Size: 3711 bp

RefSeq ORF: 2157 bp

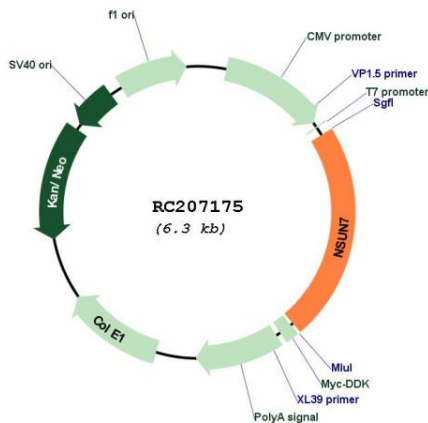
Locus ID: 79730

Cytogenetics: 4p14

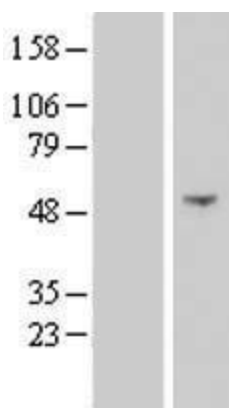
MW: 53.8 kDa

Gene Summary: May have S-adenosyl-L-methionine-dependent methyl-transferase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC207175



Western blot validation of overexpression lysate (Cat# [LY411138]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207175 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).