

Product datasheet for **RC234920**

NOP2 (NM_001258308) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | NOP2 (NM_001258308) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | NOP2 |
| Synonyms: | NOL1; NOP120; NSUN1; p120 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>RC234920 representing NM_001258308
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGCGCAAGTTGACCCCTACGAAGGAGAAGCGGGGGCCAGGCCGAAAGGCCCGAAGCAGAAGGGTG
CCGAGACAGAAGCTCGTCAGATTCTGCCTGCAGTAAGTGACGAAAATTCCAAGAGGCTGTCTAGTCGTGC
TCGAAAGAGGGCAGCCAAGAGGAGATTGGGCTCTGTTGAAGCCCTAAGACAAATAAGTCTCCTGAGGCC
AAACCATTGCCTGAAAGCTACAAAAGGGATCTCTGCAGGAGCTGTCCAGACAGCTGGTAAGAAGGGAC
CCCAGTCCCTATTTAATGCTCCTCGAGGCAAGAAGCGCCAGCACCTGGCAGTGATGAGGAAGAGGGAGGA
GGAAGACTCTGAAGAAGATGGTATGGTGAACCACGGGGACCTCTGGGGCTCCGAGGACGATGCTGATACG
GTAGATGACTATGGAGCTGACTCCAACCTCTGAGGATGAGGAGGAAGGTGAAGCGTTGCTGCCATTGAAA
GAGCTGCTCGGAAGCAGAAGGCCGGGAAGCTGCTGCTGGGATCCAGTGGAGTGAAGAGGAGACCGAGGA
CGAGGAGGAAGAGAAAGAAGTGACCCCTGAGTCAGGCCCCCAAGGTGGAAGAGGCAGATGGGGGCTG
CAGATCAATGTGGATGAGGAACCAATTTGTGCTGCCCCCTGCTGGGGAGATGGAGCAGGATGCCAGGCTC
CAGACCTGCAACGAGTTCACAAGCGGATCCAGGATATTGTGGGAATTCGCGTGATTTTGGGGCTCAGCG
GGAGGAAGGGCGGTCTCGTTCTGAATACCTGAACCGGCTCAAGAAGGATCTGGCCATTTACTACTCCTAT
GGAGACTTCTGCTTGGCAAGCTCATGGACCTCTTCCCTCTGTCTGAGCTGGTGGAGTCTTAGAAGCTA
ATGAGGTGCCTCGGCCGTCACCTCCGGACCAATACCTTGAAAACCCGACGCCGAGACCTTGCACAGGC
TCTAATCAATCGTGGGGTTAACCTGGATCCCTGGGCAAGTGGTCAAAGACTGGACTAGTGGTGTATGAT
TCTTCTGTGCCATTGGTGTACCCCGAGTACCTGGCTGGGCACTACATGCTGCAGGGAGCCTCCAGCA
TGTTGCCCGTCATGGCCTTGGCACCCAGGAACATGAGCGGATCCTGGACATGTGTTGTGCCCTGGAGG
AAAGACCAGCTACATGGCCAGCTGATGAAGAACACGGGTGTATCCTTGCCAATGACGCCAATGCTGAG
CGGCTCAAGAGTGTGTGGGCAACTTGCATCGGCTGGGAGTCACCAACACCATTATCAGCCACTATGATG
GGCGCCAGTTCGCCAAGGTGGTGGGGGGCTTTGACCGAGTACTGCTGGATGCTCCCTGCAGTGGCACTGG
GGTCATCTCCAAGGATCCAGCCGTGAAGACTAACCAAGGATGAGAAGGACATCCTGCGCTGTGCTCACCTC
CAGAAGGAGTTGCTCCTGAGTGTATTGACTCTGTCAATGCGACCTCCAAGACAGGAGGCTACCTGGTTT
ACTGCACCTGTTCTATCACAGTAGAAGAGAATGAGTGGGTGGTAGACTATGCTCTGAAAAAGAGGAATGT
GCGACTGGTGCCACGGGCTAGACTTTGGCCAGGAAGGTTTACCCGCTTCGAGAAAGGGCTTCCAC
CCCAGTCTGCGTTCTACCCGACGCTTCTACCCTCATAACCACAATATGGATGGGTCTTTCATTGCCAAGT
TCAAGAAATTTTCCAATTCTATCCCTCAGTCCCAGACAGGAAATTCGAAACAGCCACACCTACAATGT
AGACTTGCCCTCAGGTCATCCCCAAGTCTGAGAACAGCAGCCAGCCAGCCAAGAAAGCCAAGGGGGTGC
AAGACAAAGCAGCAGCTGCAGAAACAGCAACATCCCAAGAAGGCCTCCTTCCAGAAGCTGAATGGCATCT
CCAAAGGGGCAGACTCAGAAATTGTCACCTGTACCTTCTGTACAAAGACCCAAAGTTCCTCCAGCTTCCA
GGATAGCAGTCAGCCAGCTGGAAGGCGGAAGGGATCAGGGAGCCAAAGGTGACTGGGAAGCTAAAGCAA
CGATCACCTAAATTACAGTCTCCAAGAAAGTTGCTTTCTCAGGCAGAAATGCCCTCCCAAGGGCAGAC
ACACACAAACACCGGCTGTGTTATCCCATCCAAGACTCAGGCCACCCTGAAACCTAAGGACCATCATCA
GCCCTTGGAAAGGGCCAAGGGGTTGAGAAGCAGCAGTTGCCAGAGCAGCCTTTTGAGAAAGCTGCCTTC
CAGAAACAGAATGATACCCCAAGGGGCTCAGCCTCCACTGTGTCTCCATCCGTTCCAGCCGCCCC
CACCAGCAAAGAGGAAGAAATCTCAGTCCAGGGGCAACAGCCAGCTGCTGCTATCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234920 representing NM_001258308
 Red=Cloning site Green=Tags(s)

MGRKLDPTKEKRGPRKARKQKGAETELVRFLPAVSDENSKRLSSRARKRAAKRRLGSVEAPKTNKSPEA
 KPLPGKLPKGISAGAVQTAGKKGPQSLFNAPRGKKRPAPGSDEEEEEEDSEEDGMVNHGDLWGSEDDADT
 VDDYGADSNSEDEEEGEALLPIERAARKQKAREAAAGIQWSEETEDEEEKEVTPESGPPKVEEADGGL
 QINVDEEFPVLPAGEMEQDAQAPDLQRVHKRIQDIVGILRDFGAQREEGRSRSEYLNRLKKDLAIYYSY
 GDFLLGKLMDFPLSELVEFLEANEVPRPVTLRTNTLKTRRRDLAQUALINRGVNLDPGKWSKTGLVYVD
 SSVPIGATPEYLAGHYMLQGASSMLPVMALAPQEHERILDMCCAPGGKTSYMAQLMKNTGVILANDANAE
 RLKSVVGNLHRLGVTNTIISHYDGRQFPKVVGGFDRVLLDAPCSGTGVIKDPVAVKTKDEKIDILRCAHL
 QKELLLSAIDSVNATSKTGGYLVYCTCSITVEENEWVDYALKKRNVRVPTGLDFGQEGFTRFRERRFH
 PSLRSTRRFYPHTNMDFGFFIAKFKKFSNSIPQSQTGNSETATPTNVDLPQVIPKSENSSQPAKKAKGAA
 KTKQQLQKQHPKASFQKLNIGISKGADSELSTVPSVTKTQASSSFQDSSQPAGKAEGIREPKVTGKLGKQ
 RSPKLGSSKKVAFRLQNAPPKGTDTQTPAVLSPSKTQATLKPDKHHQPLGRAKGVKQQLPEQPFEKAAF
 QKQNDTPKGPQPTVSPISRPPPAKRKKSQSRGNSQLLLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001258308

ORF Size: 2436 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_001258308.2](#)

RefSeq Size: 2716 bp

RefSeq ORF: 2439 bp

Locus ID: 4839

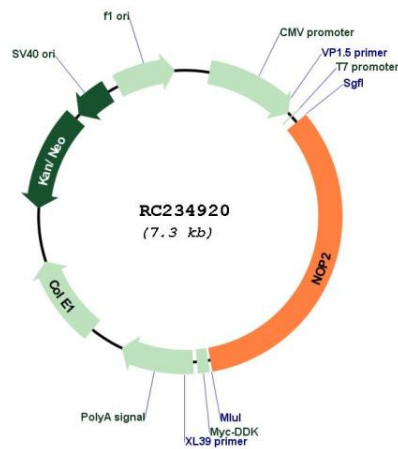
UniProt ID: [P46087](#)

Cytogenetics: 12p13.31

MW: 89.8 kDa

Gene Summary: Involved in ribosomal large subunit assembly (PubMed:24120868). S-adenosyl-L-methionine-dependent methyltransferase that specifically methylates the C(5) position of cytosine 4447 in 28S rRNA (Probable). May play a role in the regulation of the cell cycle and the increased nucleolar activity that is associated with the cell proliferation (Probable).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC234920