

Product datasheet for **RG234601**

NOP2 (NM_001258310) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOP2 (NM_001258310) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NOP2
Synonyms:	NOL1; NOP120; NSUN1; p120
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234601 representing NM_001258310
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCGCAAGTTGACCCCTACGAAGGAGAAGCGGGGGCCAGGCCGAAAGGCCCGAAGCAGAAGGGTG
 CCGAGACAGAAGCTCGTCAGATTCTTGCCTGCAGTAAGTGACGAAAATTCCAAGAGGCTGTCTAGTCGTGC
 TCGAAAGAGGGCAGCCAAGAGGAGATTGGGCTCTGTTGAAGCCCCTAAGACAAATAAGTCTCCTGAGGCC
 AAACCATTCCTCGAGGCAAGAAGCGCCAGCACCTGGCAGTGATGAGGAAGAGGAGGAGGAAGACTCTGA
 AGAAGATGGTATGGTGAACACGGGACCTCTGGGGCTCCGAGGACGATGCTGATACGGTAGATGACTAT
 GGAGCTGACTCCAACCTGAGGATGAGGAGGAAGGTGAAGCGTTGCTGCCATTGAAAGAGCTGCTCGGA
 AGCAGAAGGCCCGGAAGCTGCTGCTGGGATCCAGTGGAGTGAAGAGGAGACCGAGGACGAGGAGGAAGA
 GAAAGAAGTGACCCCTGAGTCAGGCCCCCAAGGTGGAAGAGGCAGATGGGGGCTGCAGATCAATGTG
 GATGAGGAACCATTTGTGCTGCCCTGCTGGGGAGATGGAGCAGGATGCCAGGCTCCAGACCTGCAAC
 GAGTTCACAAGCGGATCCAGGATATTGTGGGAATTCTGCGTGATTTTGGGGCTCAGCGGGAGGAAGGGCG
 GTCTCGTTCTGAATACCTGAACCGGCTCAAGAAGGATCTGGCCATTTACTACTCTATGGAGACTTCCTG
 CTTGGCAAGCTCATGGACCTCTTCCCTCTGCTGAGCTGGTGGAGTTCTTAGAAGCTAATGAGGTGCCTC
 GGCCCGTCACCCCTCCGGACCAATACCTTGAAAACCCGACGCCGAGACCTTGACAGGCTCTAATCAATCG
 TGGGGTTAACTGGATCCCTGGGCAAGTGGTCAAAGACTGGACTAGTGGTGTATGATTCTTCTGTGCC
 ATTGGTGTACCCCGAGTACCTGGCTGGGCACTACATGCTGCAGGAGCCTCCAGCATGTTGCCCGTCA
 TGGCCCGAGCTGATGAAGAACACGGGTGTGATCCTTGCCAATGACGCCAATGCTGAGCGGCTCAAGAGT
 GTTGTGGGCAACTTGCATCGGCTGGGAGTCACCAACACCATTATCAGCCACTATGATGGGCGCCAGTTCC
 CCAAGGTGGTGGGGGGCTTTGACCGAGTACTGCTGGATGCTCCCTGCAGTGGCACTGGGGTCATCTCCAA
 GGATCCAGCCGTGAAGACTAACAAGGATGAGAAGGACATCCTGCGCTGTGCTCACCTCCAGAAGGAGTTG
 CTCCTGAGTGCTATTGACTCTGTCAATGCGACCTCCAAGACAGGAGGCTACCTGGTTTACTGCACCTGTT
 CTATCACAGTAGAAGAGAATGAGTGGTGGTAGACTATGCTCTGAAAAAGAGGAATGTGCGACTGGTGCC
 CACGGGCTAGACTTTGGCCAGGAAGGTTTACCCTGTTTCGAGAAAGGCGCTTCCACCCAGTCTGCGT
 TCTACCCGACGCTTCTACCTCATACCCACAATATGGATGGGTTCTTCATTGCCAAGTTCAAGAAATTTT
 CCAATTCTATCCCTCAGTCCCAGACAGACGGTGTCTTGTCTTGTGCTCAGGCTGGACTGCAGTGGTGCA
 ATCTCAGCTCATTGCAACCTCCACCTTCCAGGTTCAGCGATTCTTGTGCCTCAGACTCCCAAG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234601 representing NM_001258310
 Red=Cloning site Green=Tags(s)

MGRKLDPTKEKRGPRGRKARKQKGAETELVRFLPAVSDENSKRLSSRARKRAAKRRLGSVEAPKTNKSPEA
 KPLPGKLPKGA VQTAGKKGPQSLFNAPRGKKRPAPGSDEEEEDSEEDGMVNHGDLWGSEDDADTVDDY
 GADSNSEDEEEGEALLPIERAARKQKAREAAAGIQWSEETEDDEEEKEVTPESGPPKVEEADGGLQINV
 DEEPFVLPPAGEMEQAQAPDLQRVHKRIQDIVGILRDFGAQREEGRSRSEYLNRLKDLAIYYSYDGL
 LGKLMDFPLSELVEFLEANEVPRPVTLRTNTLKTRRRDLAALINRGVNLDPKWSKTGLVYDSSVP
 IGATPEYLAGHYMLQGASSMLPVMALAPQEHERILDMCCAPGGKTSYMAQLMKNTGVILANDANAERLKS
 VVGNLHRLGVNTNIIISHYDGRQFPKVVGFDRLVLLDAPCSGTGVISKDPAVKTNKDEKDILRCAHLQKEL
 LLSAIDSVNATSKTGGYLVYCTCSITVEENEWVVDYALKKRNVRVPTGLDFGQEGFTRFRERRFHPSLR
 STRRFYPHNMDFGFIKFKFSNSIPQSQTGVLVLLCRSGWTAVVQSQLIATSTFQVQAILVPQTPK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001258310

ORF Size: 1884 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_001258310.2](#)

RefSeq Size: 2826 bp

RefSeq ORF: 1887 bp

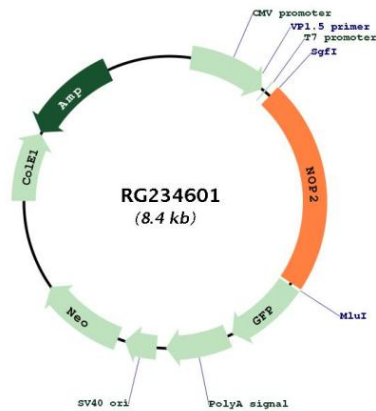
Locus ID: 4839

UniProt ID: [P46087](#)

Cytogenetics: 12p13.31

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 RG234601