

Product datasheet for **RG213776**

NOP2 (NM_001033714) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOP2 (NM_001033714) 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:**

>RG213776 representing NM_001033714
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCGCAAGTTGGACCTACGAAGGAGAAGCGGGGGCCAGGCCGAAAGGCCCGAAGCAGAAGGGTG
 CCGAGACAGAAGCTCGTCAGATTCTTGCTGCAGTAAGTGACGAAAATTCCAAGAGGCTGTCTAGTCGTGC
 TCGAAAGAGGGCAGCCAAGAGGAGATTGGGCTCTGTTGAAGCCCCAAGACAAATAAGTCTCCTGAGGCC
 AAACCATTCCTCGAGGAAGAAGCGCCAGCACCTGGCAGTGATGAGGAAGGAGGAGGAAGACTCTGA
 AGAAGATGGTATGGTGAACACGGGACCTCTGGGGCTCCGAGGACGATGCTGATACGGTAGATGACTAT
 GGAGCTGACTCCAACCTGAGGATGAGGAGGAAGGTGAAGCGTTGCTGCCATTGAAAGAGCTGCTCGGA
 AGCAGAAGGCCCGGAAGCTGCTGCTGGGATCCAGTGGAGTGAAGAGGAGACCGAGGACGAGGAGGAAGA
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 CTTGGCAAGCTCATGGACCTCTTCCTCTGTCTGAGCTGGTGGAGTTCTTAGAAGCTAATGAGGTGCCTC
 GGCCCGTCACCCCTCCGGACCAATACCTTGAAAACCCGACGCCGAGACCTTGACAGGCTCTAATCAATCG
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 TGGCCCAAGCTGATGAAGAACACGGGTGTGATCCTTGCCAATGACGCCAATGCTGAGCGGCTCAAGAGT
 GTTGTGGGCAACTTGCATCGGCTGGGAGTCACCAACACCATATCAGCCACTATGATGGGCGCCAGTTCC
 CCAAGGTGGTGGGGGGCTTTGACCGAGTACTGCTGGATGCTCCCTGCAGTGGCACTGGGGTCATCTCCAA
 GGATCCAGCCGTGAAGACTAACAAGGATGAGAAGGACATCCTGCGCTGTGCTCACCTCCAGAAGGAGTTG
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 TCTACCCGACGCTTCTACCTCATACCCACAATATGGATGGGTTCTTCATTGCCAAGTTCAAGAAATTTT
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 GCCAGCTGGAAGGCCGAAGGGATCAGGGAGCCAAAGGTGACTGGGAAGCTAAAGCAACGATCACCTAAA
 TTACAGTCTCCAAGAAAGTTGCTTTCCTCAGGCAGAAATGCCCTCCCAAGGGCACAGACACACAAACAC
 CGGCTGTGTTATCCCATCCAAGACTCAGGCCACCCTGAAACCTAAGGACCATCATCAGCCCTTGAAG
 GGCCAAGGGGGTTGAGAAGCAGCAGTTGCCAGAGCAGCCTTTTGAGAAAGCTGCCTTCCAGAAACAGAAT
 GATACCCCAAGGGGCTCAGCCTCCACTGTGTCTCCATCCGTTCCAGCCGCCCCACCAGCAAAGA
 GGAAGAAATCTAGTCCAGGGGCAACAGCCAGCTGCTGTATCT

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213776 representing NM_001033714

Red=Cloning site Green=Tags(s)

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MGRKLDPTKEKRGPRKARKQKGAETELVRFLPAVSDENSKRLSSRARKRAAKRRLGSVEAPKTNKSPEA
KPLPGKLPKGAVQTAGKKGPQSLFNAPRGKKRPAPGSDEEEEEEDSEEDGMVNHGDLWGSEDDADTVDDY
GADSNSEDEEEGEALLPIERAARKQKAREAAAGIQWSEETEDEEEEKEVTPESGPPKVEEADGGLQINV
DEEPFVLPPAGEMEQAQAPDLQRVHKRIQDIVGILRDFGAQREEGRSRSEYLNRLKKDLAIYYSYGDFL
LGKLMDFPLSELVEFLEANEVPRPVTLRTNTLKTRRRDLAQALINRGVNLDPLGKWSKTGLVVDSSVP
IGATPEYLAGHYMLQGASSMLPVMALAPQEHERILDMCCAPGGKTSYMAQLMKNTGVILANDANAERLKS
VVGNLHRLGVTNTIISHYDGRQFPKVVGGFDRVLLDAPCSGTGVISKDPAVKTNKDEKDILRCAHLQKEL
LLSAIDSVNATSKTGGYLVYCTCSITVEENEWVDYALKKRNRLVPTGLDFGQEGFTRFRERRFHPSLR
STRRFYPHTNMMDGFFIAKFKFSNSIPQSQTGNSETATPTNVDLPQVIPKSENSSQPAKKAKGAATKQ
QLQKQQHPKKASFQKLNIGSKGADSELSTVPSVTKTQASSFQDSSQPAGKAEGIREPKVTGKLRSPK
LQSSKKVAFLRQNAPPKGTDTQTPAVLSPSKTQATLKPDKHHQPLGRAKGVEKQQLPEQPFKAFAFKQN
DTPKGPQPPTVSPIRSSRPPPAKRKKSQSRGNSQLLLS
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TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



ACCN:	NM_001033714
ORF Size:	2424 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001033714.3](#)

RefSeq Size: 2729 bp

RefSeq ORF: 2427 bp

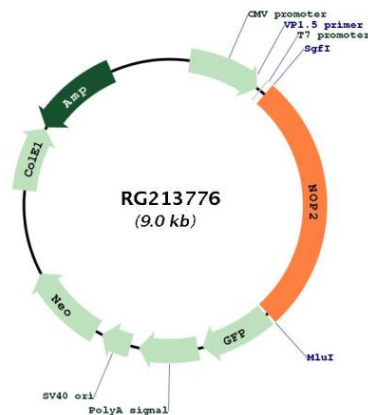
Locus ID: 4839

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 RG213776