

Product datasheet for **RG209553**

NOP2 (NM_006170) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOP2 (NM_006170) 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:

>RG209553 representing NM_006170
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCGCAAGTTGACCCTACGAAGGAGAAGCGGGGGCCAGGCCGAAAGGCCCGAAGCAGAAGGGTG
 CCGAGACAGAAGCTCGTCAGATTCTGCCTGCAGTAAGTGACGAAAATTCCAAGAGGCTGTCTAGTCGTGC
 TCGAAAGAGGGCAGCCAAGAGGAGATTGGGCTCTGTTGAAGCCCTAAGACAAATAAGTCTCCTGAGGCC
 AAACCTATGCCTGAAAGCTACCAAAAGGAGCTGTCCAGACAGCTGGTAAGAAGGGACCCAGTCCCTAT
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 AGAAGATGGTATGGTGAACCACGGGACCTCTGGGGCTCCGAGGACGATGCTGATACGGTAGATGACTAT
 GGAGCTGACTCCAACCTGAGGATGAGGAGGAAGGTGAAGCGTTGCTGCCATTGAAAGAGCTGCTCGGA
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 GAAAGAAGTGACCCTGAGTCAGGCCCCCAAAGGTGGAAGAGGCAGATGGGGCCCTGCAGATCAATGTG
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 GAGTTCACAAGCGGATCCAGGATATTGTGGGAATTCTGCGTGATTTTGGGGCTCAGCGGGAGGAAGGGCG
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 CTTGGCAAGCTCATGGACCTCTTCCCTCTGCTGAGCTGGTGGAGTTCTTAGAAGCTAATGAGGTGCCTC
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 CGGCTGTGTTATCCCATCCAAGACTCAGGCCACCCTGAAACCTAAGGACCATCATCAGCCCTTGAAG
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 GATACCCCAAGGGCCCTCAGCCTCCACTGTGTCTCCATCCGTTCCAGCCGCCCCACCAGCAAAGA
 GGAAAGAAATCTCAGTCCAGGGGCAACAGCCAGCTGCTGCTATCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG209553 representing NM_006170
 Red=Cloning site Green=Tags(s)

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MGRKLDPTKEKRGPRKARKQKGAETELVRFLPAVSDENSKRLSSRARKRAAKRRLGSVEAPKTNKSPEA
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DEEPPFVLPAGEMEQAQAPDLQRVHKRIQDIVGILRDFGAQREEGRSRSEYLNRLKKDLAIYYSYGDFL
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IGATPEYLAGHYMLQGASSMLPVMALAPQEHERILDMCCAPGGKTSYMAQLMKNTGVILANDANAERLKS
VVGNLHRLGVTNTIISHYDGRQFPKVVGGFDRVLLDAPCSGTGVI SKDPAVKTNKDEKDILRCAHLQKEL
LLSAIDSVNATSKTGGYLVYCTCSITVEENEWVDYALKKRNRLVPTGLDFGQEGFTRFRERRFHPSLR
STRRFYPHTHMDGFFIAKFKFSNSIPQSQTGNSETATPTNVDLPQVIPKSENSSQPAKKAKGAAKTQ
QLKQKQHPKASFQKLNIGISKGADSELSTVPSVTKTQASSFQDSSQPAGKAEGIREPKVTGKLRSPK
LQSSKKVAFLRQNAPPKGTDTQTPAVLSPSKTQATLKPDKHHQPLGRAKGVEKQQLPEQPFKAAAFQKQN
DTPKGPQPPTVSPIRSSRPPPAKRKKSQSRGNSQLLLS
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

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_006170.4](#)

RefSeq Size: 2661 bp

RefSeq ORF: 2427 bp

Locus ID: 4839

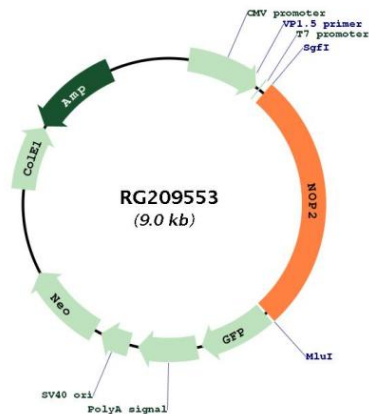
UniProt ID: [P46087](#)

Cytogenetics: 12p13.31

Domains: Nol1_Nop2_Sun

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 RG209553