

Product datasheet for **RC207514**

NOP58 (NM_015934) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	NOP58
Synonyms:	HSPC120; NOP5; NOP5/NOP58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC207514 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTGGTGTCTTTGAAACGCTCTGTGGGTACGCCATCTTTAAGGTTCTAAATGAGAAGAACTTCAAG
 AGGTTGATAGTTTATGGAAGAATTTGAACTCCAGAGAAAGCAAAAGTAAAGCTAAACATTT
 TGAGAAATTCAGGATACAGCAGAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAAATCAATAAG
 CAGCTGAAAAAGTTCTGAAGAAATAGTAAAGAACCCATGAACCGCTGGCAGTAGCTGATGCTAAAC
 TAGGAGGGGTCATAAGGAAAAAGCTGAATCTCAGTTGTATCCATAGTCTGTTGTTAATGAACCTATGAG
 AGGAATTCGTTCACAATGGATGGATTAAATCCCTGGGTAGAACCACGTGAAATGGCAGCTATGTCTTT
 GGATTGGCTCACAGCCTGTCTCGATATAGATTGAAGTTTAGCGCTGATAAAGTAGACACAATGATTGTTT
 AGGCAATTTCTTGTAGATGACTTGGATAAAGAACTAAACAACATACATTATGCGATGTAGAGAATGGTA
 TGGCTGGCATTTCCTGAATTAGGAAAAATTTTTCAGATAATTTAACATACTGCAAGTGTTACAGAAA
 GTTGGCGATAGGAAGAATATGCCTCTGCCAAGCTTTCTGAGTTGCTGCCAGAAGAAGTTGAAGCAGAAG
 TGAAAGCAGCTGCAGAGATATCAATGGGAACAGAGGTTTCAGAAGAAGATTTTGAATATTTCTGCATCT
 TTGACCCAGGTGATTGAAATCTCTGAATATCGAACCAGCTCTATGAATATCTACAAAATCGAATGATG
 GCCATTGCACCAATGTTACAGTCATGGTTGGGAATAGTTGGAGCACGGCTTATTGCTCATGCAGGTT
 CTCTTTTAAATTTGGCCAAGCATGCAGCTTCTACCGTTTCTGAGCTGAAAAGGCACTTTTTCAG
 AGCCCTCAAATCTAGACGGGATACCCCTAAGTATGGTCTCATTTATCATGCTTCACTCGTGGGCCAGACA
 AGTCCCAACACAAAGGAAGATTTCTGAATGCTGGCAGCCAAAACCGTTTTGGCTATCCGTTATGATG
 CTTTTGGTGGGATTCAAGTTCTGAATGGGAGTTGAGAACAGAGCCAAATTAGAGGCCAGTTGAGAAC
 TTTGGAAGACAGAGGGATAAGAAAAATAAGTGGAACAGGAAAAGCATTAGCAAAAACAGAAAAATGAA
 CAAAAAGTGAAGTGAAGACTTACGATCCTTCTGGTGAATCCACACTTCCAACCTGTTCTAAAAACGCA
 AAATAGAACAGGTAGATAAAGAGGATGAAATTAAGTGAAGAAAGCCAAAAAGCAAGATTAAGTTAA
 AGTTGAAGAAGAGGAAGAAGAAAAAGTGGCAGAAGAAGAAGAACATCTGTGAAGAAGAAGAAGAAAGG
 GGTAAGAAAGAAACACATTAAGGAAGAACCCTTTCTGAGGAAGAACCATGTACCAGCACAGCAATTGCTA
 GTCCAGAGAAAAAGAAGAAAAAGAAAAAAGAGAGAGAACGAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207514 protein sequence
 Red=Cloning site Green=Tags(s)

MLVLFETSVGYAIFKVLNEKKLQEVDSLWKEFETPEKANKIVKLKHFKEFQDTAEALAAFTALMEGKINK
 QLKKVKKIVKEAHEPLAVADAKLGGVKEKLNLSCHSPVYNELMRGIRSQMDGLIPGVEPREMAAMCL
 GLAHSLSRYRLKFSADKVDTMIVQAISLLDDLDKELNNYIMRCREWYGHFPELGLIISDNLTICKLQK
 VGDKNYASAKLSELLPEEVEAEVKAAAEISMGTEVSEEDICNHLCTQVIEISEYRTQLYEYLNQMM
 AIAPNVTVMVGELVGARLIAHAGSLNLAKHAASTVQILGAEKALFRALKSRDTPKYGLIYHASLVGQT
 SPKHKGKISRMLAAKTVLAIKYDAFGEDSSSAMGVENRAKLEARLRTLEDRGIRKISGTGKALAKTEKYE
 HKSEVKTYDPSGDSTLPTCSKKRKIEQVDKEDEITEKKAKKAKIKVKEEEEEKVAEEEEESVKKKKKR
 GKKKHIKEEPLSEEPCTSTAIASPEKKKKKKKKRENE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6517_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015934

ORF Size: 1587 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.

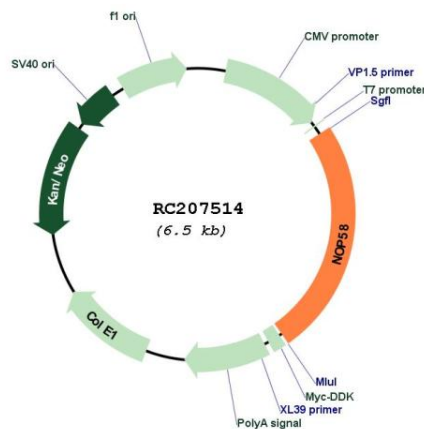
RefSeq: [NM_015934.5](#)

RefSeq Size: 1979 bp

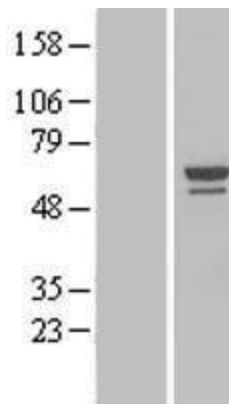
RefSeq ORF:	1590 bp
Locus ID:	51602
UniProt ID:	Q9Y2X3
Cytogenetics:	2q33.1
Domains:	Nop
MW:	59.6 kDa

Gene Summary: The protein encoded by this gene is a core component of box C/D small nucleolar ribonucleoproteins. Some box C/D small nucleolar RNAs (snRNAs), such as U3, U8, and U14, are dependent upon the encoded protein for their synthesis. This protein is SUMOylated, which is necessary for high affinity binding to snRNAs. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RC207514



Western blot validation of overexpression lysate (Cat# [LY414290]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207514 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).