

Product datasheet for **RC239692**

Nucleolar protein 14 (NOP14) (NM_001291978) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Nucleolar protein 14
Synonyms:	C4orf9; NOL14; RES4-25; RES425; UTP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC239692 representing NM_001291978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGAAGGCGAAGAAGGTCGGGGCGCGAAGGAAGGCCTCCGGGGCGCCGGCGGGAGCGCGAGGGGGCC
 CGGCGAAGGCCAACTCCAATCCGTTGAGGTGAAAGTTAACAGGCAGAAGTTCAGATCCTGGGCCGAA
 GACGCGCCACGACGTGGGACTGCCCGGGGTGTCTCGCGCACGGGCCCTCAGGAAGCGTACACAGACTTTA
 CTAAGAAGATACAAAGAAAGGGATAAATCCAATGTATTCAGAGATAAACGCTTCGGAGAATACAACAGCA
 ACATGAGCCCCGAGGAGAAGATGATGAAGAGGTTTGTCTGGAACAGCAGCGACATCATGAGAAAAAAG
 CATCTACAATCTAAATGAAGATGAAGAATTGACTCATTATGGCCAGTCTTTGGCAGACATCGAGAAGCAT
 AATGACATTGTGGACAGTGACAGCGATGCTGAGGATCGAGGAACGTTGTCTGCTGAGCTGACTGCTGCC
 ACTTTGGAGGAGGCGGTGGCTCCTTCACAAGAAGACTCAACAGGAAGGCGAGGAGCGGGAGAAACCGAA
 GTCCCCGAAAGAGCTGATTGAAGAGCTCATTGCCAAGTCAAAACAAGAGAAGAGGGAGAGACAAGCTCAA
 CGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAAGAAATTCAGACTCTCCTGTCCC
 ACAAACCTCCAAGTCAGAGAACAGAGACAAAAAGGAAAAACCAAGCCGATGCATATGACATGATGGT
 TCGCGAGCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGCAGAATTGGCAAAG
 GAAGAGCAGGAGCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGATGAGGATG
 AAAATGTTAAGAAACCAAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGATGA
 CAGGCGTTTGTCTTCTACAAAGATGGAAGATGAATGTGAGGAAGATGTCCAGGAAGAGCAAAAGCAAG
 GAAGCCAGTGACCCTGAGAGCAACGAGGAAGAAGGTGACAGTTAGGCGGGGAGGACACAGAGGAGAGCG
 ACAGCCAGATAGCCACTTGGACCTGGAATCCAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAA
 AGAGCAGAGGCAGACTCCTGGGAAAGGGTTGATAGCGGCAAGGAAAGAGCTGGAAAAGCTACCAGAGAC
 GAGCTGCCCTACACGTTGCGAGCCCTGAATCCTATGAGGAAGTGAATCTCTGTTGTTAGGAAGATCGA
 TGGAAGAGCAGCTTTTGGTGGTGGAGAGAATTCAGAAGTGCAACCAACCCGAGTCTCGCAGAAGGAAACAA
 AGCAAAATTAGAAAACTGTTTGGCTTTCTTTTGAATACGTTGGCGATTGGCTACAGATGACCCACCA
 GACCTCACAGTCATTGATAAGTTGGTTGTGCACTTATATCATCTTTGCCAGATGTTTCTGAATCTGCAA
 GTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCATGAGATGGAAGAAATGATTGAGACAAAGGCCG
 GGCGGCTTGGCAGGTTGGATGTGCTCATTTATTTGAAAATCACTGGGCTGCTATTCCAACCTCCGAC
 TTCTGGCACCAGTGGTGACCCCTGCCCTCGTGTGCTCAGTCAGCTGCTACCAAGTGCCCATCTCTGT
 CCCTCCAGGACGTGGTGAAGGGCCTGTTCTGTGCTGCCTGTTCTGGAGTATGTGGCTTTGTCCAGAG
 GTTTATACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAACAAAGCAAGCCAA
 GGTTCCACTCTGGTGCACCTTTTCCAGAGCCTTGGGAAGAACTCGGAAGTGTCTGTGGTGTCTGTAGAG
 AGGATGTGGCCAGTGGCAGCAGAGCAGCTCTCCCTCCGCTGGGCGAGTAGACTGAGGGCCCCAACTTC
 GACAGAGGCCAATCACATCCGACTGTCTGCCTGGCTGTGGGCTGGCCCTGCTGAAGCGCTGCGTGCTC
 ATGTACGGGTCCCTGCCATCCTTCCAGCCATCATGGGCTCTCCAAGCCCTCCTCACGGATCACCTGG
 CGGACTGCAGCCACCCGAGGAGCTCCAGGAGCTGTGTGAGGACACTGACCGAAATGGAAGCCAGAA
 GCAGCTCTGCCGCGCTGACCTGTGAGAAGCAAGCCTGTCCACTGAAGCTTTTACACCCCGGCTG
 GTCAAAGTCTCGAGTTTGGAAAGAAACAAGGCAGTAGTAAGGAGGAACAGGAAAGGAAGAGGCTGATCC
 ACAAACACAAGCGTGAATTTAAAGGGGCCGTTTCGAGAAATCCGCAAGGACAATCAGTTCTTGGCAGGAT
 GCAACTCTCAGAAATCATGGAACGGGATGCGGAAAGAAAGCGGAAAGTAAAGCAGCTTTTAAACAGCCTG
 GCTACACAGGAAGCGAATGGAAGGCTCTGAAGAGGAAAAAGTTCAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239692 representing NM_001291978

Red=Cloning site Green=Tags(s)

MAKAKKVGARRKASGAPAGARGGPAKANSNPFEVKVNRQKFQILGRKTRHDVGLPGVSRARALRKRTQTL
LKEYKERDKSNVFRDKRFGEYNSNMSPEEKMMKRFALQQRHHEKKS IYNLNEDEELTHYGQSLADIEKH
NDIVSDSDAEDRGTL SAEL TAAHFGGGGGLLHKKTQQEGEEREKPKSRKEL IEELIAKSKQEKRERQAQ
REDALEL TEKLDQDWKEIQTL SHKTPKSENDRKKEKPKDAYDMMVRELGFEMKAQPSNRMKTEAELAK
EEQEHLRKLEAERLRMLGKDEDENVKKPKHMSADDLNDGFVLDKDDRLLSYKDGKMNVEEDVQEEQSK
EASDPESNEEEGDSSGGEDTEESDSDPSHLDLESNVESEENEKPAKEQRQTPGKGLISGKERAGKATRD
ELPYTFAAPESYEELRSLLLGRSMEEQLLVVERIQKCNHPSLAEGNKAKLEKLFGLLEYVGDLATDDPP
DLTVIDKLVVHLYHLCQMFESASDAIKFVLRDAMHEMEEMIETKGRAALPGLDVL IYKITGLLFPTSD
FWHPVVTPALVCLSQLTKCPILSLQDVVKGLFVCCLFLEYVALSQRFIPELINFLLGILYIATPNKASQ
GSTLVHPFRALGKNSSELLVVSAREDVATWQQSSLSLRWASRLRAPTSTEANHIRLSCLAVGLALLKRCVL
MYGSLPSFHAIMGPLQALLTDHLADCSPQELQELCQSTLTEMESQKQLCRPLTCEKSKPVPLKLFPTPL
VKVLEFGRKQGSSKEEQERKRLIHKHKREFKGAVREIRKDNQFLARMQLSEIMERDAERKRKVKQLFNSL
ATQEGEWKALKRKKFKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

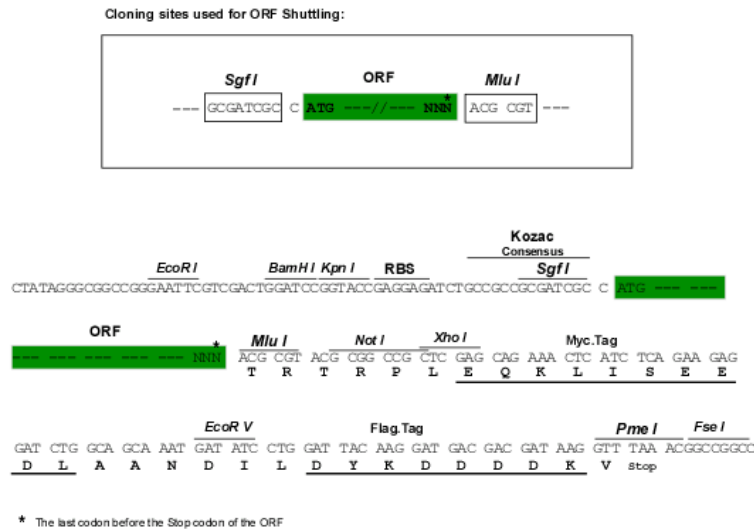
Chromatograms:

https://cdn.origene.com/chromatograms/mk8102_h05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001291978

ORF Size: 2571 bp

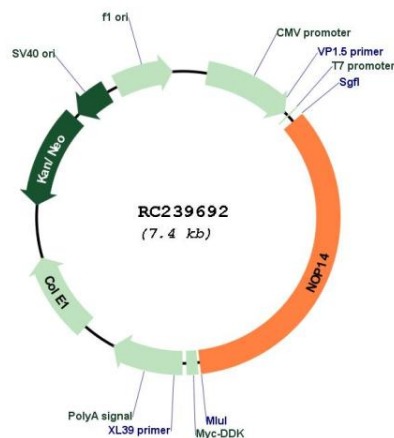
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001291978.2</u>
RefSeq Size:	3672 bp
RefSeq ORF:	2574 bp
Locus ID:	8602
UniProt ID:	<u>P78316</u>
Cytogenetics:	4p16.3
MW:	97.7 kDa
Gene Summary:	This gene encodes a protein that plays a role in pre-18s rRNA processing and small ribosomal subunit assembly. The encoded protein may be involved in the regulation of pancreatic cancer cell proliferation and migration. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

Product images:



Circular map for RC239692