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Product datasheet for RC211082

NOL9 (NM_024654) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOL9 (NM_024654) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NOL9
Synonyms:	Grc3; NET6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC211082 representing NM_024654
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGACTCGGGACTGCTGCTAAAGCGGGGTTCCTGCCGTTCCACTTGGCTGCGGGTCCGCAAGGCCC
GGCCCCAGCTCATCCTCAGCCGCCGGCCCCGCCGCCGGCTCGGGAGCCTGCGCTGGTGCGGTCGGCGGCG
CCTACGGCGGCGGTTACTGCAAGCCCAGGCGGCCGGCGTGGACTGGAGGGAGGGAGCCCGCCAGGTGTCG
CGCGCGGCGGCGGCCCGGAGACCCAACACCGCGACCCCCAGCCCGATCCCTAGCCCGACCCCGGCCTCCG
AACCCGAGTCCGAACCCGAACTCGAATCCGCCTCGAGTTGCCACCGGCCTCTCCTCATCCCACCGGTGCG
GCCCGTGGGCCCCGGCCGCGCGTTGCTGCTGCTGCCGGTCGAGCAGGGTTTTACTTTTAGTGGGATCTGT
CGTGTGACTTGCCTCTATGGCCAGGTGCAGGTATTTGGTTTTACCATCAGCCAAGGCCAGCCTGCCCAAG
ACATCTTCTCTGTGTATACCCACTCTTGCTTGAGTATCCATGCACTTCACTACTCACAGCCTGAGAAAAG
CAAGAAGGAACTGAAAAGGGAAGCCCGGAATTTGCTCAAATCTCATCTTAACCTTGATGACAGGCGTTGG
TCGATGCAGAATTTTTCTCCTCAGTGTTCCATTGTGTTGCTAGAACATCTGAAAACTGCCACTGTAAACT
TCATAACCAGCTATCCGGGTTCATCCTACATTTTTGTGCAAGAGAGTCCAACTCCCCAGATTAAACCTGA
ATATTTAGCCTTGAGGTCTGTTGGCATCAGAAGAGAGAAAAAAAGGAAAGGCCTTCAGTTAACTGAGAGT
ACCCTTTCAGCCCTGGAAGAGTTAGTCAATGTTTCCTGTGAAGAAGTAGATGGCTGCCCTGTCATTCTAG
TTTGTGGATCCCAGGATGTTGGAAAGTCAACATTTAATAGATACCTGATTAACCATTTGTTAAATAGTCT
TCCCTGCGTTGACTATTTGGAATGTGATCTGGGACAGACAGAATTTACCCCTCCTGGTTGCATTTCTTTG
CTTAATATTACAGAACCAGTTCTGGGACCACCTTTCACTCACCTGAGGACTCCACAGAAGATGGTATATT
ATGGGAAACCTTCTTGTAAAAACAACTATGAGAATTATATTGACATAGTGAAATATGTGTTCAGCGCTTA
CAAGAGAGAGTCCCCTCTCATCGTCAACACTATGGGATGGGTTTCAGACCAGGGGCTCCTGCTTCTCATT
GATCTGATCCGATTGCTGTCTCCCAGCCACGTGGTTCAGTTCCGCTCTGACCACAGTAAATATATGCCAG
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CACATAACAAAATTCTTCGAGATCTGTCCATCTTGAGTTACCTTAGCCAGCTGCAGCCCCCGATGCCCAA
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CACTCTGATGTCGCCCCTACCCATATACTATATGCTGTAAACGCCAGCTGGGTTGGTCTTTGCAAGATCC
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CTTTGGCATCTGTAGAGGCATTGACATGGAGAAGCGGCTGTACCACATCCTCACCCCTGTGCCCCCGGAA
GAGCTAAGGACCGTGAATTGTCTGCTCGTTGGAGCTATTGCCATTCCACATTGTGTCCTTAAGTGCCAGC
GTGGGATCGAAGGGACAGTACCTTATGTCACAACGGATTACAATTTTAAACTTCCTGGAGCATCAGAGAA
AATTGGAGCAAGAGAACCTGAGGAGGCACATAAAGAGAAACCATACCGAAGACCTAAGTTCTGTCGAAAA
ATGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211082 representing NM_024654
Red=Cloning site Green=Tags(s)

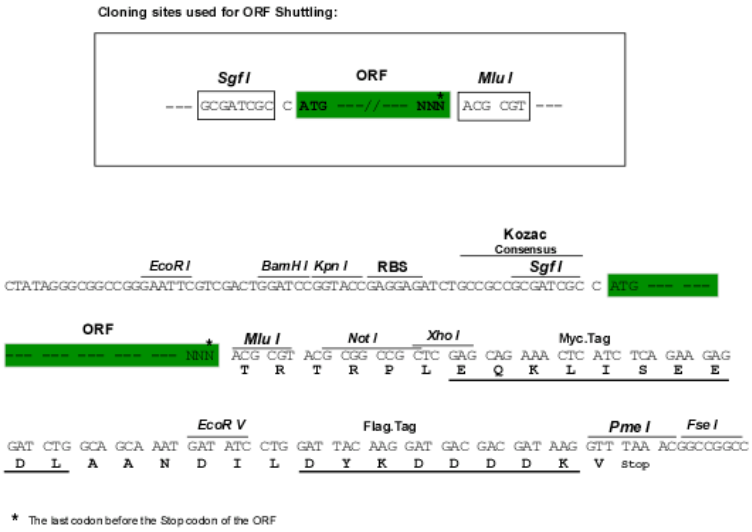
MADSGLLLKRGSCRSTWLRVRKARPQLILSRRPRRRLGSLRWCGRRRLRRRLLQAQAAGVDWREGARQVS
RAAAARRPNTATPSPIPSPTPASEPESEPELESASSCHRPLLIPPVRPVGPGRALLLLPVEQGFTFSGIC
RVTCLYGQVQVFGFTISQGQPAQDIFSVYTHSCLSIHALHYSQPEKSKKELKREARNLLKSHLNLDDRRW
SMQNFSPQCSIVLLEHLKTATVNFITSYPGSSYIFVQESPTPQIKPEYLALRSVGIRREKKRKGLQLTES
TLSALEELVNVSCEEVDGCPVILVCGSQDVGKSTFNRYLINHLLNSLPCVDYLECDLGQTEFTPPGCISL
LNITEPVLGPPFTHLRTPQKMVYYGKPSCKNNYENYIDIVKYVFSAYKRESPLIVNTMGWVSDQGLLLLI
DLIRLLSPSHVVQFRSDHSKYMPDLTPQYVDDMDGLYTKSKTKMRNRRFRLAAFADALEFADEEKESPVE
FTGHKLIGVYTDFAFRITPRNRESHNKILRDLSILSYLSQLQPPMPKPLSPLHSLTPYQVPFNAVALRIT
HSDVAPTHILYAVNASWVGLCKIQDDVRGYTNGPILLAQTPICDCLGFGICRGIDMEKRLYHILTPVPPE
ELRTVNCLLVGAIAIPHCVLKCQRGIEGTVPYVTTDYNFKLPGASEKIGAREPEEAHKEKPYRRPKFCRK
MK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8102_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024654

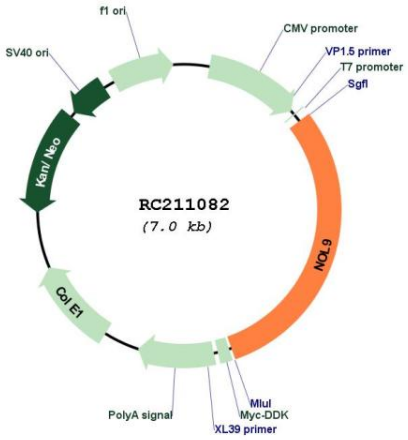
ORF Size: 2106 bp

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

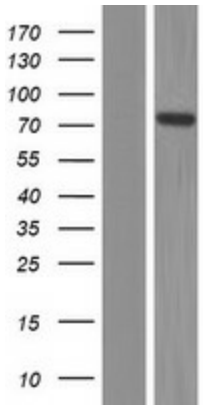
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_024654.4, NP_078930.3
RefSeq Size:	6728 bp
RefSeq ORF:	2109 bp
Locus ID:	79707
UniProt ID:	Q5SY16
Cytogenetics:	1p36.31
MW:	79.3 kDa
Gene Summary:	Polynucleotide 5'-kinase involved in rRNA processing. The kinase activity is required for the processing of the 32S precursor into 5.8S and 28S rRNAs, more specifically for the generation of the major 5.8S(S) form. In vitro, has both DNA and RNA 5'-kinase activities. Probably binds RNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC211082



Western blot validation of overexpression lysate (Cat# [LY411171]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211082 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).