

Product datasheet for **RC239347**

NOLC1 (NM_001284389) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOLC1 (NM_001284389) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NOLC1
Synonyms:	NOPP130; NOPP140; NS5ATP13; P130; Srp40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC239347 representing NM_001284389
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCGGACGCCGCATTGCGCGGTGGTTCACGACCTGTATCCCCTCGTGCTCGGCTTCCTGCGCG
 ATAACCAACTCTCAGAGGTGGCCAATAAGTTTCGCCAAAGCGACAGGAGCTACACAGCAGGATGCCAATGC
 CTCTTCCCTCTTAGACATCTATAGCTTCTGGCTCAACAGGTCTGCCAAGGTCCCAGAGCGAAAGTTACAG
 GCAATGGACAGTGGCTAAGAAAGCTAAGAAGAAGGCCTCATCCAGTGACAGTGAGGACAGCAGCGAGG
 AGGAGGAGGAAGTTCAAGGGCTCCAGCAAGAAGGCTGCTGTACCTGCCAAGCGAGTCGGTCTGCCTCC
 TGGGAAGGCTGCAGCCAAAGCATCAGAGAGTAGCAGCAGTGAAGAGTCCAGTGATGATGATGATGAGGAG
 GACCAAAAGAAACAGCCTGTCCAGAAGGGAGTTAAGCCCCAAGCCAAGGCAGCCAAAGCTCCTCCTAAGA
 AGGCCAAGAGCTCTGATTCTGATTCTGACTCAAGCTCCGAGGATGAGCCACCAAGAACCAGAAGCCAAA
 GATAACACCTGTGACAGTTAAAGCTCAGACTAAAGCCCCCTCCAAACCAGCTCGAGCAGCACCTAAAATA
 GCCAATGGTAAGCAGCCAGTAGCAGCAGTAGCAGCAGCAGCAGTAGCAGTGATGACTCAGAGGAGG
 AGAAGGCAGCAGCCACCCCAAGAAGACTGTACCTAAAAAGCAAGTTGTGGCCAAAGGCCCAAGTGAAGC
 AGCTACCAACCCCTACCCGGAAGAGTTCTAGCAGTGAGGATTCTCCAGTGACGAGGAAGAGGAGCAAAAA
 AAACCCATGAAAAATAAACAGGTCCCTACAGTTCAAGTCCCCCGCCTTCTGCTCCCCACCAAAGAAGT
 CTCTGGGAACCCAGCCTCCCAAGAAGGCTGTGGAGAAGCAGCAGCTGTGGAAAGCAGTGAAGACAGCAG
 TGATGAGTCTGATTCAAGTTCTGAAGAAGAGAAGAAACCCCAACTAAGGCAGTAGTCTCTAAAGCAACC
 ACTAAACACCTCCAGCAAGAAAGCAGCAGAGAGCTCTTCAGACAGCTCAGACTCTGACAGCTCTGAGG
 ATGATGAAGCTCCTTCTAAGCCAGCTGGTACCACCAAGAATTCTTCAAATAAGCCAGCTGTCACCACCAA
 GTCACCTGCAGTGAAGCCAGCTGCAGCCCCAAGCAACCTGTGGGCGGTGGCCAGAAGCTTCTGACGAGA
 AAGGCTGACAGCAGCTCCAGTGAGGAAGAGAGCAGCTCCAGTGAGGAGGAGAAGACAAAGAAGATGGTGG
 CCACCACTAAGCCCAAGGCGACTGCCAAAGCAGCTCTATCTCTGCCTGCCAAGCAGGCTCCTCAGGGTAG
 TAGGGACAGCAGCTCTGATTGACAGCTCCAGCAGTGAGGAGGAGGAAGAGAAGACATCTAAGTCTGCA
 GTTAAGAAGAAGCCACAGAAGGTAGCAGGAGGTGCAGCCCCTTCCAAGCCAGCCTCTGCAAGAAAGGAA
 AGGCTGAGAGCAGCAACAGTTCTTCTTCTGATGACTCCAGTGAGGAAGAGGAAGAGAAGCTCAAGGGCAA
 GGGCTCTCCAAGACCACAAGCCCCAAGGCCAATGGCACCTCTGCACTGACTGCCAGAATGAAAAAGCA
 GCTAAGAACAGTGAGGAGGAGGAAGAAGAAAAGAAAAGGCGGCAGTGGTAGTTTCCAAATCAGGTTTCA
 TAAAGAAGCGGAAGCAGAATGAGGCTGCCAAGGAGGCAGAGACTCCTCAGGCCAAGAAGATAAAGCTTCA
 GACCCCTAACACATTTCCAAAAAGGAAGAAAGGAGAAAAAAGGGCATCATCCCCATTCCGAAGGGTCAGG
 GAGGAGGAAATTGAGGTGATTACAGATTGCGGACAACCTCCTTTGATGCCAAGCGAGGTGCAGCCGGAG
 ACTGGGGAGAGCGAGCCAATCAGGTTTTGAAGTTACCAAAGGCAAGTCCTTTCCGCATGAGAAAACCAA
 GAAGAAGCGGGCAGCTACCGGGGAGGCTCAATCTCTGTCCAGGTCAATTCTATTAAGTTTGACAGCGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239347 representing NM_001284389
 Red=Cloning site Green=Tags(s)

MADAGIRRVVPSDL YPLVLGFLRDNLSEVANKFAKATGATQQDANASSLLDIYSFWLNRSKAVPERKLQ
 ANGPVAKKAKKKASSDSEDSSEEEEEVQGPAPKAAVPAKRVGLPPGKAAAKASESSSSESSDDDDDEE
 DQKKQPVQKGVKPQAKAAKAPPKAKSSDSDSSSEDEPPKNQPKITPVTVKAQTKAPPKPARAAPKI
 ANGKAASSSSSSSSSSDDSEEEKAAATPKKTVPKKQVVAAPVKAATTPTRKSSSEDSSEDEEEQK
 KPMKNKPGPYSSVPPPSAPPPKSLGTQPPKAVEKQQPVESSEDSSEDSSEEEKPPTKAVVSKAT
 TKPPPAKKAASSDSDSDSSEDDEAPSKPAGTTKNSNKPAVTTKSPAVKPAAPKQPVGGGQKLLTR
 KADSSSSEESSSEEEKTKMVATTKPKATAKALSLPAKQAPQGSRDSSSDSSSSEEEEEKTSKSA
 VKKKPQKVAGGAAPSKPASAKKGKAESSNSSSDSSSEEEEEKLKGKSPRPQAPKANGTSALTQNGKA
 AKNSEEEEEKKAAVVVSKSGSLKKRKQNEAAKEAETPQAKKIKLQTPNTFPKRKKGEKRASSPFRRVR
 EEEIEVDSRVADNSFDAQGAAGDWGERANQVLKFTKGKSFRHEKTKKRGSYRGGISIVQVNSIKFDSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001284389

ORF Size: 2100 bp

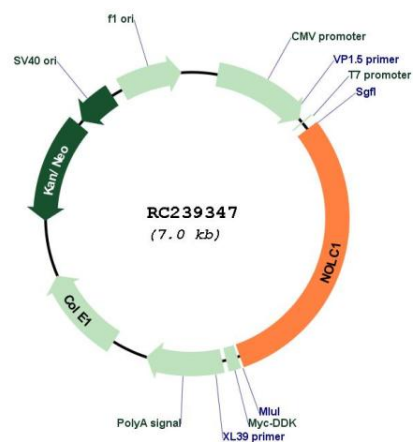
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001284389.2</u>
RefSeq Size:	3950 bp
RefSeq ORF:	2103 bp
Locus ID:	9221
UniProt ID:	<u>Q14978</u>
Cytogenetics:	10q24.32
Protein Families:	Stem cell - Pluripotency
MW:	74.2 kDa
Gene Summary:	Nucleolar protein that acts as a regulator of RNA polymerase I by connecting RNA polymerase I with enzymes responsible for ribosomal processing and modification (PubMed:10567578, PubMed:26399832). Required for neural crest specification: following monoubiquitination by the BCR(KBTBD8) complex, associates with TCOF1 and acts as a platform to connect RNA polymerase I with enzymes responsible for ribosomal processing and modification, leading to remodel the translational program of differentiating cells in favor of neural crest specification (PubMed:26399832). Involved in nucleologenesis, possibly by playing a role in the maintenance of the fundamental structure of the fibrillar center and dense fibrillar component in the nucleolus (PubMed:9016786). It has intrinsic GTPase and ATPase activities (PubMed:9016786).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC239347