

Product datasheet for **RC239378**

NOLC1 (NM_001284388) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOLC1 (NM_001284388) 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:**

>RC239378 representing NM_001284388
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACGCCGCGATTGCGCGGTGGTTCAGCGACCTGTATCCCCTCGTGCTCGGCTTCCTGCGCG
 ATAACCAACTCTCAGAGGTGGCCAATAAGTTTCGCCAAAGCGACAGGAGCTACACAGCAGGATGCCAATGC
 CTCTTCCCTCTTAGACATCTATAGCTTCTGGCTCAAGTCTGCCAAGGTCCAGAGCGAAAGTTACAGGCA
 AATGGACCACTGGCTAAGAAAGCTAAGAAGAAGGCCTCATCCAGTGACAGTGAGGACAGCAGCGAGGAGG
 AGGAGGAAGTTCAAGGGCTCCAGCAAAGAAGGCTGCTGTACCTGCCAAGCGAGTCGGTCTGCCTCCTGG
 GAAGGCTGCAGCCAAAGCATCAGAGAGTACAGCAGTGAAGAGTCCAGTGATGATGATGATGAGGAGGAC
 CAAAAGAAACAGCCTGTCCAGAAGGGAGTTAAGCCCCAAGCCAAGGCAGCCAAAGCTCCTCTAAGAAGG
 CCAAGAGCTCTGATTCTGATTCTGACTCAAGCTCCGAGGATGAGCCACCAAGAACCAGAAGCCAAAGAT
 AACACCTGTGACAGTTAAAGCTCAGACTAAAGCCCTCCCAAACAGCTCGAGCAGCACCTAAAAATAGCC
 AATGGTAAAGCAGCCAGTAGCAGCAGTAGCAGCAGCAGCAGTACGAGTGATGACTCAGAGGAGGAGA
 AGGCAGCAGCCACCCCAAGAAGGTCTGGACCATAACTTCTGTGACGGGCAGAGACTGTACCTAAAAAGCA
 AGTTGTGGCCAAGGCCCAAGTGAAGCAGCTACCAACCCCTACCCGGAAGAGTTCTAGCAGTGAGGATTCC
 TCCAGTGACGAGGAAGAGGAGCAAAAAAACCCATGAAAAATAAACAGGTCCCTACAGTTCAAGTCCCTCC
 CGCCTTCTGCTCCCCACCAAGAAGTCTCTGGGAACCCAGCCTCCCAAGAAGGCTGTGGAGAAGCAGCA
 GCCTGTGGAAAGCAGTGAAGACAGCAGTGATGAGTCTGATTCAAGTTCTGAAGAAGAGAAGAAACCCCA
 ACTAAGGCAGTAGTCTCTAAAGCAACCACTAAACCACTCCAGCAAAGAAAGCAGCAGAGAGCTCTTCAG
 ACAGCTCAGACTCTGACAGCTCTGAGGATGATGAAGCTCCTTCTAAGCCAGCTGGTACCACCAAGAATTC
 TTCAAATAAGCCAGCTGTCAACCAAGTCACCTGCAGTGAAGCCAGCTGCAGCCCCCAAGCAACCTGTG
 GGCGGTGGCCAGAAGCTTCTGACGAGAAAGGCTGACAGCAGCTCCAGTGAGGAAGAGAGCAGCTCCAGTG
 AGGAGGAGAAGACAAAGAAGATGGTGGCCACCACTAAGCCCAAGGCGACTGCCAAGCAGCTCTATCTCT
 GCCTGCCAAGCAGGCTCCTCAGGTAGTAGGACAGCAGCTCTGATTGACAGCTCCAGCAGTGAGGAG
 GAGGAAGAGAAGACATCTAAGTCTGCAGTTAAGAAGAAGCCACAGAAGGTAGCAGGAGGTGCAGCCCTT
 CCAAGCCAGCCTCTGCAAGAAAGGAAAGGCTGAGAGCAGCAACAGTTCTTCTTCTGATGACTCCAGTGA
 GGAAGAGGAAGAGAAGCTCAAGGGCAAGGGCTCTCAAGACCACAAGCCCCAAGGCCAATGGCACCTCT
 GCACTGACTGCCAGAATGGAAAAGCAGCTAAGAACAGTGAGGAGGAGGAAGAAGAAAAGAAAAGGCGG
 CAGTGGTAGTTTCCAAATCAGGTTCAATTAAGAAGCGGAAGCAGAATGAGGCTGCCAAGGAGGCAGAGAC
 TCCTCAGGCCAAGAAGATAAAGCTTCAGACCCCTAACACATTTCCAAAAAGGAAGAAAGGAGAAAAAGG
 GCATCATCCCCATTCCGAAGGTCAGGGAGGAGGAAATTGAGGTGGATTACGAGTTGCGGACAACCTCT
 TTGATGCCAAGCGAGGTGCAGCCGAGACTGGGGAGAGCGAGCCAATCAGGTTTTGAAGTTACCAAAGG
 CAAGTCCTTTCGGCATGAGAAAACCAAGAAGAAGCGGGGAGCTACCGGGGAGGCTCAATCTCTGTCCAG
 GTCAATTCTATTAAGTTTGACAGCGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239378 representing NM_001284388
 Red=Cloning site Green=Tags(s)

MADAGIRRVVPSDL YPLVLGFLRDNQLSEVANKFAKATGATQQDANASSLLDIYSFWLKS AKVPERKLQA
 NGPVAKKAKKKASSSDSEDSSEEEEEVQGPAPKAAVPAKRVGLPPGKAAKASESSSESSDDDDDEED
 QKKQPQKGVKPAKAAKAPPKAKSSSDSDSSSEDEPPKNQPKITPVTVKAQTKAPPKPARAAPKIA
 NGKAASSSSSSSSSSSSDDSEEEKAAATPKKVWTITSVRAETVPKKQVVAAPVKAATTPTRKSSSEDS
 SSDEEEEQKKPMKNKPGPYSSVPPPSAPPPKSLGTQPPKKA VEKQPPVESSEDSSESDSSSEEEKPP
 TKAVVSKATTKPPPAKAAESSSDSDSSSEDEAPSKPAGTTKNSSNKP AVTTKSPAVKPAAPKQPV
 GGGQKLLTRKADSSSEEESSSEEEKTKMVATTKPKATAKAALSLPAKQAPQGSRDSSSDSDSSSSEE
 EEKTSKSAVKKKPKQVAGGAAPSKPASAKKGKAESSNSSSDSSSEEEEEKLKGKSPRPQAPKANGTS
 ALTAQNGKAAKNSEEEEEKKAAVVVSKGSLKKRKQNEAAKEAETPQAKKIKLQTPNTFPKRKKGEKR
 ASSPFRRVREIEVDSRVADNSFDAKGAAGDWGERANQVLKFTKGKSRHEKTKKKRGSYRGGSISVQ
 VNSIKFDSE

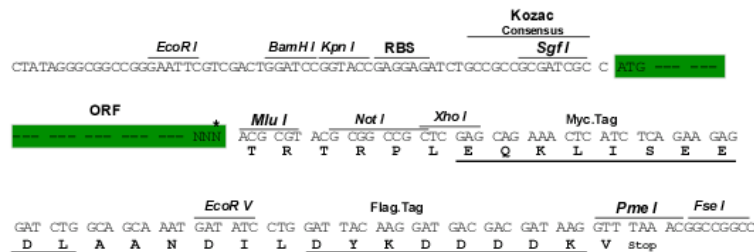
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Cloning Scheme:

Sgfl-MluI

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001284388

ORF Size: 2127 bp

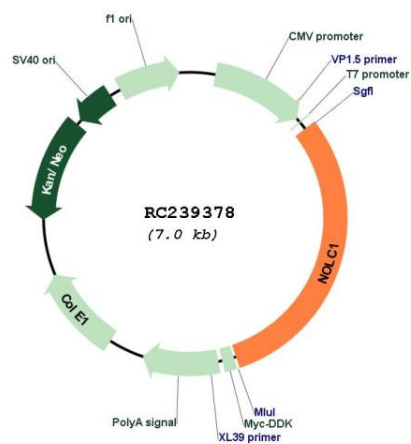
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001284388.1, NP_001271317.1</u>
RefSeq Size:	3977 bp
RefSeq ORF:	2130 bp
Locus ID:	9221
UniProt ID:	<u>Q14978</u>
Cytogenetics:	10q24.32
Protein Families:	Stem cell - Pluripotency
MW:	75.2 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 RC239378