

## Product datasheet for **MR215401**

### **Nolc1 (NM\_001039352) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nolc1 (NM_001039352) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nolc1
Synonyms:	NOPP130; NOPP140; P130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR215401 representing NM\_001039352  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGATACCGGCTTGCGCCGTGGTTCCAGCGACCTTTATCCCCTTGTGCTCAGATTTCTCGGG  
 ATAGCCAACTCTCGGAGGTGGCCAGTAAATTTGCAAAAGCGACCGCGCTACACAGCAGGACGCCAATGC  
 CTCGTCCCTCTTGACATCTATAGCTTCTGGCTCAACAGGTCCACCAAAGCCCCAAAGGTGAAGTTACAG  
 TCAAATGGACCAGTGACCAAGAAGGCTAAGAAAGAGACTTCATCCAGTGACAGCAGTGAGGACAGCAGTG  
 AGGACGAGGACAAAAAGCCAGGGACTTCCCACACAGAAGGCTGCCGCACAGGTCAAGCGAGCCAGTGT  
 GCCTCAGCATGCTGAAAGGCAGCAGCCAAAGCTTCCAGAGCAGCAGTGTGAAGAATCCAGTGAGGAA  
 GAGGAAGAGGACAAAAAGAAAAGCCTGTCCAGCAGAAGGCAGCTAAGCCCCAAGCCAAGGCAGTCAGAC  
 CTCCTGCGAAGAAGGCAGAGAGCTCTGAGTCGGACTCAGACTCGGATTCGGACTCCAGCTCAGAGGAAGA  
 AACACCACAGACCAGAAGCCAAAGGCAGCTGTGGCAGCAAAAGCTCAGACTAAAGCCGAAGCCAAACCA  
 GGTACACCAGCGAAAGCAGACGCTAAGGTAGCCAAATGGCAAAAGCAGCCGCCAGCAGCAGCAGCAGCA  
 GCAGCGATGACTCAGAGGAAGAGAAGAAGGCAGCTGCACCTCCCAAGAAGACTGTACCAAAAAAGCAAGT  
 CGTGGCCAAGGCCCAAGTGAAGTAGCTGCCGCCCCACCCAGAAGAGCTCCAGCAGTGAGGATTCTTCC  
 AGTGAAGAGGAGGAGGGACAGAGACAACCCATGAAGAAAAAGCAGGTCCCTACAGTTTCAAGTTCCACCAC  
 CCTCTGTTCTTTACCAAGAAGTCCCCGGGAACCCAGGCTCCAAAGAAAGCTGCTGCGCAGACACAGCC  
 TGCAGACAGCAGTGACGACAGCAGTGACGATTCTGATTCAAGTTCTGAGGAAGAGAAAAACCTCCAGCT  
 AAGACGGTCTGCTCCAAGACCCCGCAAAAGCAGCTCCAGTGAAGAAGAAAGCAGAAAGCTTCCAGACA  
 GCTCGGATTCTGACAGTTCTGAGGATGAAGCTCCTGCCAAGCCAGTCAGTACAACCAAGAGTCCCAAGC  
 AGCTGTCACTCCGAAGCCATCTGCAGCAAAAGGCAGTGACAACCTTAAGCAACCTGCAGGCAGTAACCCAG  
 AAACCTCAGAGCAGGAAGGCTGACAGCAGCTCCAGCGAGGAGGAAAGCAGCTCCAGCGAGGAGGAGGAGG  
 CCTCCAAGAAAAGTGCCACAACCCCAAGGCCAAGGTGACTGCTAAAGCAGCACCCGCCAAACAGGCCCC  
 TCAGGCTGCTGGGGACAGCAGCTCTGACTCAGATAGTTCCAGCAGTGAAGAGGAGGAGAAGACTCCTAAG  
 CCCCCAGCTAAGAAGAAGGCAGCAGGTGGAGCCGTTTCTACACCAGCCCTGGGAAGAAAGCAGAGGCCA  
 AGAGCAGCAGCAGCAGCAGCAGCAGCTCCGAAGATTCAGTGAAGAGGAGAAAAAAGAAGCCCAA  
 AGCTACTACCCCTAAAAACAGGCAAGCAAGGCCAATGGCACTCCAGTTCTCTGAATGGAAAAGCAGCC  
 AAGGAAAGTGAGGAGGAAGAGGAGGAGGAGAAACAGAAGAGAAGAAAAAGGCAGCTGGGACCAAGCCAG  
 GTTCAGGCAAAAAACGGAAGCAGAAATGAGACCGCAGATGAAGCAACAACCTCTAAGCTAAGAAAAGTTAA  
 GCTCGAGACCCCAATACGTTTCCAAAAAGGAAGAAGGGAGAAAGAAGGGCGTCTTCCCCTTTCCGAAGG  
 GTCAGGGAGGAGGAGATTGAGGTGGACTCTCGAGTGGCGGACAATTCTTTGATGCCAAGCGAGGTGCAG  
 CTGGAGACTGGGGGAGCGAGCCAATCAGGTTCTGAAGTTCACCAAGGCCAAGTCCTTCCGGCATGAAAA  
 AACGAAGAAGAAGCGAGGCAGCTACCGGGAGGCTCCATCTGTGCCAGGTCAATTCGTCAAATTCGAC  
 AGCGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR215401 representing NM\_001039352  
Red=Cloning site Green=Tags(s)

MADTGLRRVPSDL YPLVLRFLRDSQLSEVASKFAKATGATQQDANASSLLDIYSFWLNRSTKAPKVKLQ  
 SNGPVTKAKKETSSSDSSEDSSEDEDKKAQGLPTQKAAAQVKRASVPQHAGKAAKASESSSSEESSEE  
 EEEEDKKKPVQQKAAKPQAKAVRPPAKKAESSESDSDSDSDSSSEETPQTQKPKAAVAAKAQTKEAKP  
 GTPAKAQPKVANGKAAASSSSSSSDSDEEEKKAAAPPKKTVPKKQVVAAPVKVAAPTQKSSSSEDS  
 SEEEEGQRQPMKKKAGPYSSVPPSVPLPKKSPGTQAPKAAAQTPADSDDSDSDSSEEEKKPPA  
 KTVVSKTPAKAAPVKKKAESSSDSDSDSSEDEAPAKPVSTTKSPKPAVTPKPSAAKAVTTPKQPAGSNQ  
 KPQSRKADSSSSEESSSSEEEEEASKKSATTPKAKVTAKAAPAKQAPQAAGSSSDSDSSSSEEEKTPK  
 PPAKKAAGGAVSTPAGKKAEEKSSSSSSSSSEDSSEEEKKKPKATTPKIQASKANGTPASLNGKAA  
 KESEEEEEEEETEEKKAAGTKPGSGKKRQNETADEATTPQAKVKLETPNTFPKRKKGERRASSPFR  
 VREEEIEVDSRVADNSFDAKRGAAAGDWGERANQVLKFTKGKSRHEKTKKKRGSYRGGISVQVNSVKFD  
 SE

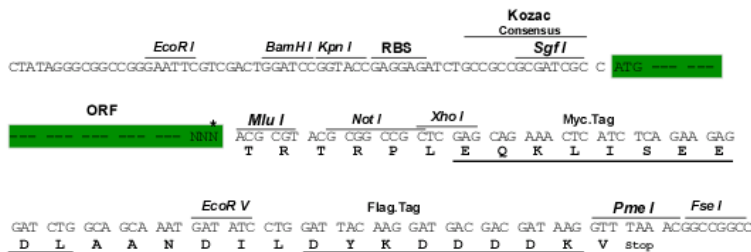
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9108\\_f06.zip](https://cdn.origene.com/chromatograms/mm9108_f06.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001039352

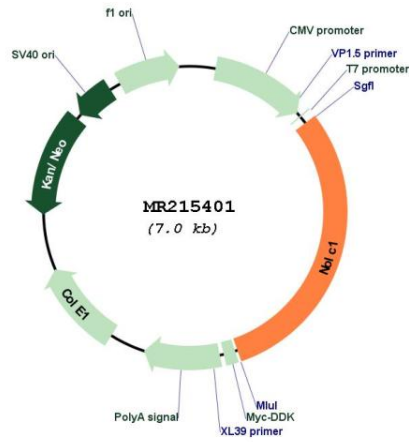
**ORF Size:** 2106 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001039352.2</a></u> , <u><a href="#">NP_001034441.1</a></u>
<b>RefSeq Size:</b>	3665 bp
<b>RefSeq ORF:</b>	2109 bp
<b>Locus ID:</b>	70769
<b>UniProt ID:</b>	<u><a href="#">E9Q5C9</a></u>
<b>Cytogenetics:</b>	19 C3
<b>MW:</b>	73.7 kDa
<b>Gene Summary:</b>	<p>Nucleolar protein that acts as a regulator of RNA polymerase I by connecting RNA polymerase I with enzymes responsible for ribosomal processing and modification (By similarity). 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 (By similarity). 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:11424213). It has intrinsic GTPase and ATPase activities (By similarity).</p> <p>[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR215401