

## Product datasheet for **MR215489**

### **Nolc1 (NM\_001039353) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nolc1 (NM_001039353) 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:**

>MR215489 representing NM\_001039353  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGATACCGCTTGCGCCGTGGTTCCAGCGACCTTTATCCCCTTGTGCTCAGATTTCTGCGGG  
 ATAGCCAATCTCGGAGGTGGCCAGTAAATTTGCAAAAAGCGACCGCGCTACACAGCAGGACGCCAATGC  
 CTCGTCCCTCTTGACATCTATAGCTTCTGGCTCAAGTCCACCAAAGCCCCAAAGGTGAAGTTACAGTCA  
 AATGGACCAGTGACCAAGAAGGCTAAGAAAAGACTTCATCCAGTGACAGCAGTGAGGACAGCAGTGAGG  
 ACGAGGACAAAAAGCCAGGGACTTCCACACAGAAGGCTGCCGCACAGGTCAAGCGAGCCAGTGTGCC  
 TCAGCATGCTGGAAGGCGAGCAGCCAAAGCTTCAGAGAGCAGCAGTAGTGAAGAAATCCAGTGAGGAAGAG  
 GAAGAGGACAAAAAGAAAAGCCTGTCCAGCAGAAGGCAGCTAAGCCCCAAGCCAAGGCAGTCAGACCTC  
 CTGCGAAGAAGGCAGAGAGCTCTGAGTCGGACTCAGACTCGGATTCGGACTCCAGCTCAGAGGAAGAAAC  
 ACCACAGACCCAGAAGCCAAAGGCAGCTGTGGCAGCAAAAGCTCAGACTAAAGCCGAAGCCAAACCAGGT  
 ACACCAGCGAAAAGCACAGCCTAAGGTAGCCAATGGCAAAGCAGCCGCCAGCAGCAGCAGCAGCAGCAGCA  
 GCGATGACTCAGAGGAAGAGAAGAGGCAGCTGCACCTCCCAAGAAGACTGTACCAAAAAAGCAAGTCTGT  
 GGCCAAGGCCCCAGTGAAAGTAGCTGCCGCCCCACCCAGAAGAGCTCCAGCAGTGAGGATTCCTCCAGT  
 GAAGAGGAGGAGGACAGAGACAACCCATGAAGAAAAAGCAGGTCCCTACAGTTCAGTTCACCCACCTT  
 CTGTTCCTTTACCAAAGAAGTCCCCGGGAACCCAGGCTCCAAAGAAAGCTGCTGCGCAGACACAGCCTGC  
 AGACAGCAGTGACGACAGCAGTGACGATTCTGATTCAAGTCTGAGGAAGAGAAAAACCTCCAGCTAAG  
 ACGGTCGTCTCCAAGACACCCGCCAAAGCAGCTCCAGTGAAGAAGAAAGCAGAAAGCTCTCAGACAGCT  
 CGGATTCGACAGTTCGAGGATGAAGCTCCTGCCAAGCCAGTCAGTACAACCAAGAGTCCCAAGCCAGC  
 TGTCACTCCGAAGCCATCTGCAGCAAAAGCAGTGACAACCTCCTAAGCAACCTGCAGGCAGTAACCCAGAAA  
 CCTCAGAGCAGGAAGGCTGACAGCAGCTCCAGCGAGGAGGAAAGCAGCTCCAGCGAGGAGGAGGAGGCT  
 CCAAGAAAAGTGCCACAACCCCAAGGCCAAGGTGACTGCTAAAGCAGCACCCGCCAAACAGGCCCTCA  
 GGCTGCTGGGACAGCAGCTCTGACTCAGATAGTTCAGCAGTGAAGAGGAGGAGAAGACTCCTAAGCCC  
 CCAGCTAAGAAGAAGGCAGCAGGTGGAGCCGTTTCTACACCAGCCCTGGGAAGAAAGCAGAGGCCAAGA  
 GCAGCAGCAGCAGCAGCAGCAGCTCCGAAGATTCAGTGAAGAGGAGAAAAAAGAAGCCCAAGC  
 TACTACCCCTAAAATACAGGCAAGCAAGGCCAATGGCACTCCAGTTCCTGAAAGGAAAAGCAGCCAAG  
 GAAAGTGAGGAGGAGAGGAGGAGGAAGAAACAGAAGAGAAGAAAAGGCAGCTGGGACCAAGCCAGGTT  
 CAGGCAAAAAACGAAGCAGAATGAGACCGCAGATGAAGCAACAACCTCCTCAAGCTAAGAAAAGTTAAGCT  
 CGAGACCCCAATACGTTTCCAAAAAGGAAGAAGGGAGAAAGAAGGGCGTCTTCCCTTTCCGAAGGGTC  
 AGGGAGGAGGAGATTGAGGTGGACTCTCGAGTGGCGGACAATTCTTTGATGCCAAGCGAGGTGCAGCTG  
 GAGACTGGGGGAGCGAGCCAATCAGGTTCTGAAGTTCACCAAAGGCAAGTCTTCCGGCATGAAAAAAC  
 GAAGAAGAAGCGAGGCAGCTACCGGGAGGCTCCATCTCTGTCCAGGTCAATTCCGTCAAATTCGACAGC  
 GAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR215489 representing NM\_001039353  
Red=Cloning site Green=Tags(s)

MADTGLRRVPSDL YPL VLRFLRDSQLSEVASKFAKATGATQQDANASSLLDIYSFWLKSTKAPVKVLQS  
 NGPVTKKAKKETSSSDSSEDSEDEDKKAQGLPTQKAAAQVKRASVPQHAGKAAKASESSSSEESSEEE  
 EEDKKKKPVQQAAPKQAKAVRPPAKKAESESDSDSDSSSEETPQTQPKAAVAAKAQTKEAKPG  
 TPAKAQPKVANGKAAASSSSSSDDEEEKKAAAPPKKTVPKKQVVAAPVVAAPTQKSSSSEDSSS  
 EEEEGQRQPMKKKAGPYSSVPPPSVPLPKKSPGTQAPKAAAQTQPADSSDSDSDSSEEEKPPAK  
 TVVSKTPAKAAPVKKKAESSSDSDSDSSEDEAPAKPVSTTKSPKPAVTPKPSAAKAVTTPKQPAGSNQK  
 PQSRKADSSSSEEESSSSEEEEASKKSATTPKAKVTAKAAPAKQAPQAAGDSSSDSDSSSEEEETPKP  
 PAKKKAAGGAVSTPAPGKKAEEKSSSSSSSSSESSEEEKKKPKATTPKIQASKANGTPASLNGKAAK  
 EEEEEEEEEETEEKKAAGTKPGSGKRRKQNETADEATTPQAKVKLETNPNTFPKRKKGERRASSPFRRV  
 REEEIEVDSRVADNSFDAKGAAGDWGERANQVLKFTKGKSRHEKTKKRRGSRGGSISVQVNSVKFDS  
 E

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001039353

**ORF Size:** 2103 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\\_001039353.2](#), [NP\\_001034442.1](#)

**RefSeq Size:** 3649 bp

**RefSeq ORF:** 2106 bp

**Locus ID:** 70769

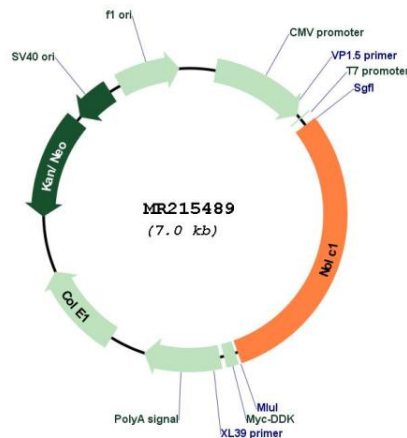
**UniProt ID:** [E9Q5C9](#)

**Cytogenetics:** 19 C3

**MW:** 74 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 (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). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR215489