

## Product datasheet for **MG215489**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nolc1 (NM_001039353) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nolc1
Synonyms:	NOPP130; NOPP140; P130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG215489 representing NM\_001039353  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGATACCGCTTTCGCCCGCTGGTTCCAGCGACCTTTATCCCCTTGCTCAGATTTCTCGGG  
 ATAGCCAATCTCGGAGGTGGCCAGTAAATTTGCAAAAAGCGACCGCGCTACACAGCAGGACGCCAATGC  
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 ACGAGGACAAAAAGCCAGGGACTTCCACACAGAAGGCTGCCGCACAGGTCAAGCGAGCCAGTGTGCC  
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 ACACCAGCGAAAAGCACAGCCTAAGGTAGCCAATGGCAAAGCAGCCGCCAGCAGCAGCAGCAGCAGCAGCA  
 GCGATGACTCAGAGGAAGAGAAGAGGCAGCTGCACCTCCCAAGAAGACTGTACCAAAAAAGCAAGTCGT  
 GGCCAAGGCCCCAGTGAAAGTAGCTGCCGCCCCACCCAGAAGAGCTCCAGCAGTGAGGATTCCTCCAGT  
 GAAGAGGAGGAGGACAGAGACAACCCATGAAGAAAAAGCAGGTCCCTACAGTTCAGTTCACCCACCT  
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 AGACAGCAGTGACGACAGCAGTGACGATTCTGATTCAAGTCTGAGGAAGAGAAAAACCTCCAGCTAAG  
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 CCTCAGAGCAGGAAGGCTGACAGCAGCTCCAGCGAGGAGGAAAGCAGCTCCAGCGAGGAGGAGGAGGCT  
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 GAAAGTGAGGAGGAGAGGAGGAGGAAGAAACAGAAGAGAAGAAAAGGCAGCTGGGACCAAGCCAGGTT  
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 CGAGACCCCAATACGTTTCCAAAAAGGAAGAAGGGAGAAAGAAGGGCGTCTCCCTTTCCGAAGGGTC  
 AGGGAGGAGGAGATTGAGGTGGACTCTCGAGTGGCGGACAATTCCTTTGATGCCAAGCGAGGTGCAGCTG  
 GAGACTGGGGGAGCGAGCCAATCAGGTTCTGAAGTTCACCAAAGGCAAGTCTTCCGGCATGAAAAAC  
 GAAGAAGAAGCGAGGCAGCTACCGGGAGGCTCCATCTCTGTCCAGGTCAATTCGTCAAATTCGACAGC  
 GAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG215489 representing NM\_001039353  
 Red=Cloning site Green=Tags(s)

MADTGLRRVPSDL YPLVLRFLRDSQLSEVASKFAKATGATQQDANASSLLDIYSFWLKSTKAPKVKLQS  
 NGPVTKKAKKETSSSDSSEDSEDEDKKAQGLPTQKAAAQVKRASVPQHAGKAAAKASESSSSEESSEEE  
 EEDKKKKPVQKAAKPKQAKAVRPPAKKAESESDDSDSDSSSEETPQTQPKAAVAAKAQTKEAKPG  
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 TVVSKTPAKAAPVKKKAESSSDSDSDSSEDEAPAKPVSTTKSPKPAVTPKPSAAKAVTTPKQPAGSNQK  
 PQSRKADSSSSEEESSSSEEEASKKSATTPKAKVTAKAAPAKQAPQAAGDSSSDSDSSSEEEETPKP  
 PAKKKAAGGAVSTPAPGKKAEEKSSSSSSSSSSEDSEEEKKKPKATTPKIQASKANGTPASLNGKAAK  
 ESEEEEEEEETEKKKAAGTKPGSGKKRQNETADEATTPQAKVKLETNPNTFPKRKKGERRASSPFRRV  
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 E

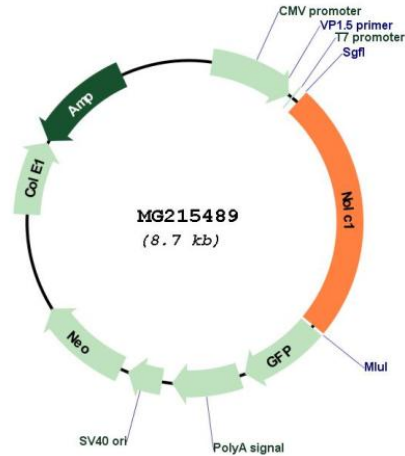
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**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

**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]