

## Product datasheet for **MG206272**

### Nolc1 (BC003244) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nolc1 (BC003244) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nolc1
Synonyms:	P130, NOPP130, NOPP140, mKIAA0035
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206272 representing BC003244 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGATACCGGCTTGCGCCGCTGGTTCCAGCGACCTTTATCCCCTTGCTCAGATTTCTGCGGG  
ATAGCCAACTCTCGGAGGTGGCCAGTAAATTTGCAAAGCGACCGGCGCTACACAGCAGGACGCCAATGC  
CTCGTCCCTCTTGACATCTATAGCTTCTGGCTCAAGTCCACAAAGCCCAAAGGTGAAGTTACAGTCA  
AATGGACCAGTGACCAAGAAGGTAAGAAAGAGACTTCATCCAGTGACAGCAGTGAGGACAGCAGTGAGG  
ACGAGGACAAAAAGCCAGGGACTTCCCACACAGAAGGCTGCCGCACAGGTCAAGCGAGCCAGTGTGCC  
TCAGCATGCTGGAAAGGCAGCAGCCAAAGCTTCAGAGAGCAGCAGTAGTGAAGAAATCCAGTGAGGAAGAG  
GAAGAGGACAAAAAGAAAAGCCTGTCCAGAAGGCAGCTAAGCCCAAGCCAAGGCAGTCAGACCTCCTG  
CGAAGAAGGCAGAGAGCTCTGAGTCGGACTCAGACTCGGATTCGGACTCCAGCTCAGAGGAAGAAACACC  
ACAGACCCAGAAGCCAAAGGCAGCTGTGGCAGCAAAAGCTCAGACTAAAGCCGAAGCCAAACCAGGTACA  
CCAGCGAAAGCACAGCCTAAGGTAGCCAATGGCAAAGCAGCCGCCAGCAGCAGCAGCAGCAGCAGCAGCA  
GCAGCAGCGATGACTCAGAGGAAGAGAAGAAGGCAGCTGCACCTCCCAAGAAGACTGTACAAAAAAGCA  
AGTCGTGGCCAAGGCCCCAGTGAAGTAGCTGCCGCCCCACCCAGAAGAGCTCCAGCAGTGAGGATTCT  
TCCAGTGAAGAGGAGGAGGGACAGAGACAACCCATGAAGAAAAAAGCAGGTCCCTACAGTTCAAGTTCCAC  
CACCTCTGTTCCCTTACCAAAGAAGTCCCGGGAACCCAGGCTCCAAAGAAAGCTGCTGCCGAGACACA  
GCCTGCAGACAGCAGTGACGACAGCAGTGACGATTCTGATTCAAGTTCTGAGGAAGAGAAAAACCTCCA  
GCTAAGACGGTCTCTCCAAGACACCCGCCAAAGCAGCTCCAGTGAAGAAGAAAGCAGAAAGCTCTTCAG  
ACAGCTCGGGTAACGCTGCCAGAGCTCTGGGCTGCTGGGTAAGTCACTGCCTTGGGCTGCTCTTACAGG  
GCTCCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206272 representing BC003244  
 Red=Cloning site Green=Tags(s)

MADTGLRRVPSDL YPLVLRFLRDSQLSEVASKFAKATGATQQDANASSLLDIYSFWLKSTKAPKVKLQS  
 NGPVTKKAKKETSSSDSSEDSEDEDKKAQGLPTQKAAAQVKRASVPQHAGKAAAKASESSSSEESSEEE  
 EEDKKKKPVQKAAKPQAKAVRPPAKKAESSESDSDSDSSSEETPQTQKPKAAVAAKAQTKAIAKPGT  
 PAKAQPKVANGKAAASSSSSSSSSDDEEEKAAAPPKKTVPKKQVVAKAPVKVAAAPTQKSSSSEDS  
 SSEEEEGQRQPMKKKAGPYSSVPPPSVPLPKKSPGTQAPKAAAQTPADSSDSDSDSSSEEEKKPP  
 AKTVVSKTPAKAAPVKKKAESSDSSGNAAQSSGLLGYSLPWAALTGLP

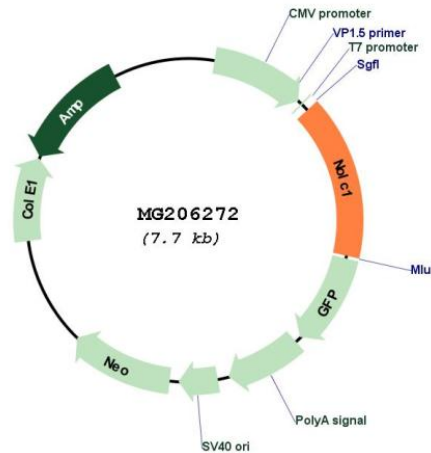
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC003244

<b>ORF Size:</b>	1199 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">BC003244</a>
<b>RefSeq Size:</b>	1872 bp
<b>RefSeq ORF:</b>	1199 bp
<b>Locus ID:</b>	70769
<b>Cytogenetics:</b>	19 C3
<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>