

## Product datasheet for **MC220591**

### **Nolc1 (NM\_001039351) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nolc1 (NM_001039351) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC220591 representing NM\_001039351  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGATACCGGCTTGCGCCGTGGTTCCAGCGACCTTTATCCCCTTGTGCTCAGATTTCTGCGGG  
 ATAGCCAACTCTCGGAGGTGGCCAGTAAATTTGCAAAAAGCGACCGGCGCTACACAGCAGGACGCCAATGC  
 CTCGTCCTCTTTGGACATCTATAGCTTCTGGCTCAAGTCCACCAAAGCCCCAAAGGTGAAGTTACAGTCA  
 AATGGACCACTGACCAAGAAGGCTAAGAAAGAGACTTCATCCAGTGACAGCAGTGAGGACAGCAGTGAGG  
 ACGAGGACAAAAAGCCAGGGACTTCCACACAGAAGGCTGCCGCACAGGTCAAGCGAGCCAGTGTGCC  
 TCAGCATGCTGGAAGGCGAGCAGCCAAAGCTTCAGAGAGCAGCAGTAGTGAAGAATCCAGTGAGGAAGAG  
 GAAGAGGACAAAAAGAAAAGCCTGTCCAGAAGGCAGCTAAGCCCCAAGCCAAGGCAGTCAGACCTCCTG  
 CGAAGAAGGCAGAGAGCTCTGAGTCGGACTCAGACTCGGATTCGGACTCCAGCTCAGAGGAAGAAACACC  
 ACAGACCCAGAAGCCAAGGCAGCTGTGGCAGCAAAAGCTCAGACTAAAGCCGAAGCCAAACCAGGTACA  
 CCAGCGAAAGCACAGCCTAAGGTAGCCAATGGCAAAGCAGCCGCCAGCAGCAGCAGCAGCAGCAGCAGCG  
 ATGACTCAGAGGAAGAGAAGAAGGCAGCTGCACCTCCCAAGAAGACTGTACCAAAAAAGCAAGTCGTGGC  
 CAAGGCCCCAGTGAAAGTAGCTGCCGCCCCACCAGAAGAGCTCCAGCAGTGAGGATTCTTCCAGTGAA  
 GAGGAGGAGGGACAGAGACAACCCATGAAGAAAAAGCAGGTCCCTACAGTTCAGTTCACCACCCTCTG  
 TTCCTTTACCAAAGAAGTCCCGGGAACCCAGGCTCCAAGAAAGCTGCTGCGCAGACACAGCCTGCAGA  
 CAGCAGTGACGACAGCAGTGACGATTCTGATTCAGTTCTGAGGAAGAGAAAAACCTCCAGCTAAGACG  
 GTCGTCTCCAAGCACCCGCCAAAGCAGCTCCAGTGAAGAAGAAAGCAGAAAGCTCTTCAGACAGCTCGG  
 CACTCCGAAGCCATCTGCAGCAAAGGCAGTGACAACCTCCTAAGCAACCTGCAGGCAGTAACCCAGAAACCT  
 CAGAGCAGGAAGGCTGACAGCAGCTCCAGCGAGGAGGAAAGCAGCTCCAGCGAGGAGGAGGAGGCCCTCCA  
 AGAAAAGTGCCACAACCCCAAGGCCAAGGTGACTGCTAAAGCAGCACCCGCCAAACAGGCCCTCAGGC  
 TGCTGGGACAGCAGCTCTGACTCAGATAGTTCAGCAGTGAAGAGGAGGAGAAGACTCCTAAGCCCCCA  
 GCTAAGAAGAAGGCAGCAGGTGGAGCCGTTTCTACACCAGCCCTGGGAAGAAAGCAGAGGCCAAGAGCA  
 GCAGCAGCAGCAGCAGCAGCTCCGAAGATTCCAGTGAAGAGGAGAAAAAAGAAAGCCCAAAGTAC  
 TACCCCTAAAATACAGGCAAGCAAGGCCAATGGCACTCCAGCTTCTCTGAATGAAAAAGCAGCCAAAGGAA  
 AGTGAGGAGGAAGAGGAGGAGGAAGAAACAGAAGAGAAGAAAAAGGCAGCTGGGACCAAGCCAGGTTTCAG  
 GCAAAAAACGGAAGCAGAAATGAGACCGCAGATGAAGCAACAACCTCCTCAAGCTAAGAAAGTTAAGCTCGA  
 GACCCCAATACGTTTCCAAAAAGGAAGAAGGGAGAAAGAAGGGCGTCTTCCCCTTTCCGAAGGGTCAGG  
 GAGGAGGAGATTGAGGTGGACTCTCGAGTGGCGGACAATTCTTTGATGCCAAGCGAGGTGCAGCTGGAG  
 ACTGGGGGAGCGAGCCAATCAGGTTCTGAAGTTCACCAAGGCAAGTCTTCCGGCATGAAAAACGAA  
 GAAGAAGCGAGGCAGCTACCGGGGAGGCTCCATCTCTGTCCAGGTCAATTCCGTCAAATTCGACAGCGAG  
 TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001039351

**Insert Size:** 2103 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<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_001039351.2</a></u> , <u><a href="#">NP_001034440.1</a></u>
<b>RefSeq Size:</b>	3659 bp
<b>RefSeq ORF:</b>	2103 bp
<b>Locus ID:</b>	70769
<b>UniProt ID:</b>	<u><a href="#">E9Q5C9</a></u>
<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). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses two alternate in-frame splice sites in the central coding region, compared to variant 3. The encoded isoform (B) is shorter, compared to isoform C.</p>