

Product datasheet for **MC220593**

Nolc1 (NM_053086) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nolc1 (NM_053086) 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: >MC220593 representing NM_053086
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGATACCGGCTTGCGCCGTGGTTCCAGCGACCTTTATCCCCTTGCTGCTCAGATTTCTGCGGG
 ATAGCCAACCTCGGAGGTGGCCAGTAAATTTGCAAAAAGCGACCGCGCTACACAGCAGGACGCCAATGC
 CTCGTCCTCTTGGACATCTATAGCTTCTGGCTCAACAGGTCCACCAAAGCCCCAAAGGTGAAGTTACAG
 TCAAATGGACCAGTGACCAAGAAGGCTAAGAAAGAGACTTCATCCAGTGACAGCAGTGAGGACAGCAGTG
 AGGACGAGGACAAAAAGCCAGGGACTTCCCACACAGAAGGCTGCCGCACAGGTCAAGCGAGCCAGTGT
 GCCTCAGCATGCTGAAAGGCAGCAGCCAAAGCTTCCAGAGCAGCAGTGTGAAGAATCCAGTGAGGAA
 GAGGAAGAGGACAAAAAGAAAAGCCTGTCCAGAAGGCAGCTAAGCCCCAAGCCAAGGCAGTCAGACCTC
 CTGCGAAGAAGGCAGAGAGCTCTGAGTCGGACTCAGACTCGGATTCGGACTCCAGCTCAGAGGAAGAAAC
 ACCACAGACCCAGAAGCCAAAGGCAGCTGTGCCAGCAAAAGCTCAGACTAAAGCCGAAGCCAAACCAGGT
 ACACCAGCGAAAGCACAGCCTAAGGTAGCCAATGGCAAAGCAGCCGCCAGCAGCAGCAGCAGCAGCAGCA
 GCGATGACTCAGAGGAAGAGAAGAGGCAGCTGCACCTCCCAAGAAGACTGTACCAAAAAAGCAAGTCTGT
 GGCCAAGGCCCCAGTGAAGTAGCTGCCGCCCCACCCAGAAGAGCTCCAGCAGTGAGGATCTTCCAGT
 GAAGAGGAGGAGGACAGAGACAACCCATGAAGAAAAAGCAGGTCCCTACAGTTCAGTTCACCCACCT
 CTGTTCCTTTACCAAAGAAGTCCCCGGGAACCCAGGCTCCAAAGAAAGCTGCTGCGCAGACACAGCCTGC
 AGACAGCAGTGACGACAGCAGTGACGATTCTGATTCAAGTCTGAGGAAGAGAAAAACCTCCAGCTAAG
 ACGGTCGTCTCCAAGACACCCGCCAAAGCAGCTCCAGTGAAGAAGAAAGCAGAAAGCTTTCAGACAGCT
 CGGATTTGACAGTTCTGAGGATGAAGCTCTGCCAAGCCAGTCAGTACAACCAAGAGTCCCAAGCCAGC
 TGTCACTCCGAAGCCATCTGCAGCAAAGGCAGTGACAACCTCTAAGCAACCTGCAGGCAGTAACCAGAAA
 CCTCAGAGCAGGAAGGCTGACAGCAGCTCCAGCGAGGAGGAAAGCAGCTCCAGCGAGGAGGAGGAGGCT
 CCAAGAAAAGTGCCACAACCCCCAAGGCCAAGGTGACTGCTAAAGCAGCACCCGCCAAACAGGCCCTCA
 GGCTGCTGGGACAGCAGCTCTGACTCAGATAGTTCAGCAGTGAAGAGGAGGAGAAGACTCCTAAGCCC
 CCAGCTAAGAAGAAGGCAGCAGGTGGAGCCGTTTCTACACCAGCCCTGGGAAGAAAGCAGAGGCCAAGA
 GCAGCAGCAGCAGCAGCAGCAGCTCCGAAGATTCCAGTGAAGAGGAGAAAAAAGAAGCCCAAAGC
 TACTACCCCTAAAATACAGGCAAGCAAGGCCAATGGCACTCCAGTCTCTGAATGGAAAAGCAGCCAAG
 GAAAGTGAGGAGGAAGAGGAGGAGAAGAAACAGAAGAGAAGAAAAGGCAGCTGGGACCAAGCCAGGTT
 CAGGCAAAAAACGAAGCAGAATGAGACCGCAGATGAAGCAACAACCTCTCAAGCTAAGAAAGTTAAGCT
 CGAGACCCCAATACGTTTCCAAAAAGGAAGAAGGGGAGAAAGAAGGGCGTCTTCCCTTTCCGAAGGGTC
 AGGGAGGAGGAGATTGAGGTGGACTCTCGAGTGGCGGACAATTCTTTGATGCCAAGCGAGGTGCAGCTG
 GAGACTGGGGGAGCGAGCCAATCAGGTTCTGAAGTTCACCAAAGGCAAGTCTTCCGGCATGAAAAAC
 GAAGAAGAAGCGAGGCAGCTACCGGGGAGGCTCCATCTCTGTCCAGGTCAATTCCGTCAAATTCGACAGC
 GAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_053086

Insert Size: 2106 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).

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:	<ol style="list-style-type: none">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:	<u>NM_053086.3</u> , <u>NP_444316.2</u>
RefSeq Size:	3662 bp
RefSeq ORF:	2106 bp
Locus ID:	70769
UniProt ID:	<u>E9Q5C9</u>
Cytogenetics:	19 C3
Gene Summary:	<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 (1) uses an alternate in-frame splice site in the central coding region, compared to variant 3. The encoded isoform (A) is shorter, compared to isoform C.</p>