

Product datasheet for **MC220594**

Nolc1 (NM_001039353) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nolc1 (NM_001039353) 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: >MC220594 representing NM_001039353
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGATACCGCTTTCGCCCGGTGGTTCACAGCGACCTTTATCCCCTTGTGCTCAGATTTCTGCGGG
 ATAGCCAACCTCGGAGGTGGCCAGTAAATTTGCAAAAAGCGACCGCGCTACACAGCAGGACGCCAATGC
 CTCGTCCTCTTGGACATCTATAGCTTCTGGCTCAAGTCCACCAAAGCCCAAAGGTGAAGTTACAGTCA
 AATGGACCAGTGACCAAGAAGGCTAAGAAAAGACTTCATCCAGTGACAGCAGTGAGGACAGCAGTGAGG
 ACGAGGACAAAAAGCCAGGGACTTCCACACAGAAGGCTGCCGCACAGGTCAAGCGAGCCAGTGTGCC
 TCAGCATGCTGGAAGGCGAGCAGCCAAAGCTTCAGAGAGCAGCAGTAGTGAAGAAATCCAGTGAGGAAGAG
 GAAGAGGACAAAAAGAAAAGCCTGTCCAGCAGAAGGCAGCTAAGCCCCAAGCCAAGGCAGTCAGACCTC
 CTGCGAAGAAGGCAGAGAGCTCTGAGTCGGACTCAGACTCGGATTCGGACTCCAGCTCAGAGGAAGAAAC
 ACCACAGACCCAGAAGCCAAAGGCAGCTGTGCCAGCAAAAAGCTCAGACTAAAGCCGAAGCCAAACCAGGT
 ACACCAGCGAAAAGCACAGCCTAAGGTAGCCAATGGCAAAGCAGCCGCCAGCAGCAGCAGCAGCAGCAGCA
 GCGATGACTCAGAGGAAGAGAAGAGGCAGCTGCACCTCCCAAGAAGACTGTACCAAAAAAGCAAGTCTGT
 GGCCAAGGCCCCAGTGAAGTAGCTGCCGCCCCACCCAGAAGAGCTCCAGCAGTGAGGATTCCTCCAGT
 GAAGAGGAGGAGGACAGAGACAACCCATGAAGAAAAAGCAGGTCCCTACAGTTCAGTTCACCCACCTT
 CTGTTCCCTTACCAAAGAAGTCCCGGGAAACCCAGGCTCCAAAGAAAGCTGCTGCGCAGACACAGCCTGC
 AGACAGCAGTGACGACAGCAGTGACGATTCGATTCAAGTTCAGGAAGAGAAAAACCTCCAGCTAAG
 ACGGTCGTCTCCAAGACACCCGCCAAAGCAGCTCCAGTGAAGAAGAAAGCAGAAAGCTCTCAGACAGCT
 CGGATTCGACAGTTCGAGGATGAAGCTCCTGCCAAGCCAGTCAGTACAACCAAGAGTCCCAAGCCAGC
 TGTCACTCCGAAGCCATCTGCAGCAAAGGCAGTGACAACCTCCTAAGCAACCTGCAGGCAGTAACCAGAAA
 CCTCAGAGCAGGAAGGCTGACAGCAGCTCCAGCGAGGAGGAAAGCAGCTCCAGCGAGGAGGAGGAGGCT
 CCAAGAAAAGTGCCACAACCCCAAGGCCAAGGTGACTGCTAAAGCAGCACCCGCAACAGGCCCTCA
 GGCTGCTGGGACAGCAGCTCTGACTCAGATAGTTCAGCAGTGAAGAGGAGGAGAAGACTCCTAAGCCC
 CCAGCTAAGAAGAAGGCAGCAGGTGGAGCCGTTTCTACACCAGCCCTGGGAAGAAAGCAGAGGCCAAGA
 GCAGCAGCAGCAGCAGCAGCAGCTCCGAAGATTCAGTGAAGAGGAGAAAAAAGAAGCCCAAAGC
 TACTACCCCTAAAATACAGGCAAGCAAGGCCAATGGCACTCCAGTTCCTGTAATGGAAGCAGCCAAG
 GAAAGTGAGGAGGAGAGGAGGAGGAAGAAACAGAAGAGAAGAAAAGGCAGCTGGGACCAAGCCAGGTT
 CAGGCAAAAAACGAAGCAGAATGAGACCGCAGATGAAGCAACAACCTCCTCAAGCTAAGAAAGTTAAGCT
 CGAGACCCCAATACGTTTCCAAAAAGGAAGAAGGGAGAAAGAAGGGCGTCTTCCCTTTCCGAAGGGTC
 AGGGAGGAGGAGATTGAGGTGGACTCTCGAGTGGCGGACAATTCCTTTGATGCCAAGCGAGGTGCAGCTG
 GAGACTGGGGGAGCGAGCCAATCAGGTTCTGAAGTTCACCAAAGGCAAGTCTTCCGGCATGAAAAAC
 GAAGAAGAAGCGAGGCAGCTACCGGGGAGGCTCCATCTCTGTCCAGGTCAATTCGTCAAATTCGACAGC
 GAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001039353
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_001039353.2</u> , <u>NP_001034442.1</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 (4) uses an alternate in-frame splice site in the central coding region, compared to variant 3. The encoded isoform (D) is shorter, compared to isoform C.</p>