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Product datasheet for SC337241

NOLC1 (NM_001284389) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOLC1 (NM_001284389) Human Untagged Clone
Tag:	Tag Free
Symbol:	NOLC1
Synonyms:	NOPP130; NOPP140; NS5ATP13; P130; Srp40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_001284389, the custom clone sequence may differ by one or more nucleotides

ATGGCGGACGCCGGCATTCGCCGCGTGGTTCCCAGCGACCTGTATCCCCTCGTGCTCGGCTTCCTGCGCG
ATAACCAACTCTCAGAGGTGGCCAATAAGTTCGCCAAAGCGACAGGAGCTACACAGCAGGATGCCAATGC
CTCTTCCCTCTTAGACATCTATAGCTTCTGGCTCAACAGGTCTGCCAAGGTCCCAGAGCGAAAGTTACAG
GCAAATGGACCAGTGGCTAAGAAAGCTAAGAAGAAGGCCTCATCCAGTGACAGTGAGGACAGCAGCGAGG
AGGAGGAGGAAGTTCAAGGGCCTCCAGCAAAGAAGGCTGCTGTACCTGCCAAGCGAGTCGGTCTGCCTCC
TGGGAAGGCTGCAGCCAAAGCATCAGAGAGTAGCAGCAGTGAAGAGTCCAGTGATGATGATGATGAGGAG
GACCAAAAGAAACAGCCTGTCCAGAAGGGAGTTAAGCCCCAAGCCAAGGCAGCCAAAGCTCCTCCTAAGA
AGGCCAAGAGCTCTGATTCTGATTCTGACTCAAGCTCCGAGGATGAGCCACCAAAGAACCAGAAGCCAAA
GATAACACCTGTGACAGTTAAAGCTCAGACTAAAGCCCCTCCCAAACCAGCTCGAGCAGCACCTAAAATA
GCCAATGGTAAAGCAGCCAGTAGCAGCAGTAGCAGCAGCAGCAGCAGTAGCAGTGATGACTCAGAGGAGG
AGAAGGCAGCAGCCACCCCCAAGAAGACTGTACCTAAAAAGCAAGTTGTGGCCAAGGCCCCAGTGAAAGC
AGCTACCACCCCTACCCGGAAGAGTTCTAGCAGTGAGGATTCCTCCAGTGACGAGGAAGAGGAGCAAAAA
AAACCCATGAAAAATAAACCAGGTCCCTACAGTTCAGTCCCCCCGCCTTCTGCTCCCCCACCAAAGAAGT
CTCTGGGAACCCAGCCTCCCAAGAAGGCTGTGGAGAAGCAGCAGCCTGTGGAAAGCAGTGAAGACAGCAG
TGATGAGTCTGATTCAAGTTCTGAAGAAGAGAAGAAACCCCCAACTAAGGCAGTAGTCTCTAAAGCAACC
ACTAAACCACCTCCAGCAAAGAAAGCAGCAGAGAGCTCTTCAGACAGCTCAGACTCTGACAGCTCTGAGG
ATGATGAAGCTCCTTCTAAGCCAGCTGGTACCACCAAGAATTCTTCAAATAAGCCAGCTGTCACCACCAA
GTCACCTGCAGTGAAGCCAGCTGCAGCCCCCAAGCAACCTGTGGGCGGTGGCCAGAAGCTTCTGACGAGA
AAGGCTGACAGCAGCTCCAGTGAGGAAGAGAGCAGCTCCAGTGAGGAGGAGAAGACAAAGAAGATGGTGG
CCACCACTAAGCCCAAGGCGACTGCCAAAGCAGCTCTATCTCTGCCTGCCAAGCAGGCTCCTCAGGGTAG
TAGGGACAGCAGCTCTGATTCAGACAGCTCCAGCAGTGAGGAGGAGGAAGAGAAGACATCTAAGTCTGCA
GTTAAGAAGAAGCCACAGAAGGTAGCAGGAGGTGCAGCCCCTTCCAAGCCAGCCTCTGCAAAGAAAGGAA
AGGCTGAGAGCAGCAACAGTTCTTCTTCTGATGACTCCAGTGAGGAAGAGGAAGAGAAGCTCAAGGGCAA
GGGCTCTCCAAGACCACAAGCCCCCAAGGCCAATGGCACCTCTGCACTGACTGCCCAGAATGGAAAAGCA
GCTAAGAACAGTGAGGAGGAGGAAGAAGAAAAGAAAAAGGCGGCAGTGGTAGTTTCCAAATCAGGTTCAT
TAAAGAAGCGGAAGCAGAATGAGGCTGCCAAGGAGGCAGAGACTCCTCAGGCCAAGAAGATAAAGCTTCA
GACCCCTAACACATTTCCAAAAAGGAAGAAAGGAGAAAAAAGGGCATCATCCCCATTCCGAAGGGTCAGG
GAGGAGGAAATTGAGGTGGATTCACGAGTTGCGGACAACTCCTTTGATGCCAAGCGAGGTGCAGCCGGAG
ACTGGGGAGAGCGAGCCAATCAGGTTTTGAAGTTCACCAAAGGCAAGTCCTTTCGGCATGAGAAAACCAA
GAAGAAGCGGGGCAGCTACCGGGGAGGCTCAATCTCTGTCCAGGTCAATTCTATTAAGTTTGACAGCGAG
TGA

Restriction Sites: SgfI-MluI

ACCN: NM_001284389

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:	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_001284389.1, NP_001271318.1
RefSeq Size:	3950 bp
RefSeq ORF:	2103 bp
Locus ID:	9221
UniProt ID:	Q14978
Cytogenetics:	10q24.32
Protein Families:	Stem cell - Pluripotency
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 (PubMed:10567578, PubMed:26399832). 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 (PubMed:26399832). 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:9016786). It has intrinsic GTPase and ATPase activities (PubMed:9016786).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) uses two alternate in-frame splice sites in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 3), compared to isoform 1.