

## Product datasheet for **SC125320**

### Nucleolin (NCL) (NM\_005381) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nucleolin (NCL) (NM_005381) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nucleolin
Synonyms:	C23; Nsr1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC125320 sequence for NM\_005381 edited (data generated by NextGen Sequencing)

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ATGGTGAAGCTCGCGAAGGCAGGTAAAAATCAAGGTGACCCCAAGAAAATGGCTCCTCCT
CCAAAGGAGGTAGAAGAAGATAGTGAAGATGAGGAAATGTCAGAAGATGAAGAAGATGAT
AGCAGTGGAGAAGAGGTCGTCATACCTCAGAAGAAAGGCAAGAAGGCTGCTGCAACCTCA
GCCAAGAAGGTGGTCGTTTTCCCAACAAAAAGTTGCAGTTGCCACACCAGCCAAGAAA
GCAGTGTCACTCCAGGCAAAAAGGCAGCAGCAACACCTGCCAAGAAGACAGTTACACCA
GCCAAAGCAGTTACCACACCTGGCAAGAAGGGAGCCACACCAGGCAAAGCATTGGTAGCA
ACTCCTGGTAAGAAGGGTCTGCCATCCCAGCCAAGGGGGCAAAGAATGGCAAGAATGCC
AAGAAGGAAGACAGTGATGAAGAGGAGGATGATGACAGTGAGGAGGATGAGGAGGATGAC
GAGGACGAGGATGAGGATGAAGATGAAATTGAACCAGCAGCGATGAAAGCAGCAGCTGCT
GCCCTGCCTCAGAGGATGAGGACGATGAGGATGACGAAGATGATGAGGATGACGATGAC
GATGAGGAAGATGACTCTGAAGAAGAAGCTATGGAGACTACACCAGCCAAGGAAAGAAA
GCTGCAAAAGTTGTTCTGTGAAAGCCAAGAACGTGGCTGAGGATGAAGATGAAGAAGAG
GATGATGAGGACGAGGATGACGACGACGACGAAGATGATGAAGATGATGATGATGAAGAT
GATGAGGAGGAGGAAGAAGAGGAGGAGGAGAGCCTGTCAAAGAAGCACCTGGAAAACGA
AAGAAGGAAAATGGCCAAACAGAAAGCAGCTCCTGAAGCCAAGAAAACAGAAAGTGGAAAGGC
ACAGAACCAGACTACGGCTTTCAATCTCTTTGTTGGAAACCTAACTTTAACAAATCTGCT
CCTGAATTAATAACTGGTATCAGCGATGTTTTTGTAAAAATGATCTTGCTGTTGTGGAT
GTCAGAATTGGTATGACTAGGAAATTTGGTTATGTGGATTTTGAATCTGCTGAAGACCTG
GAGAAAGCGTTGGAACCTCACTGGTTTAAAAGTCTTTGGCAATGAAATTAAGTAGAGAAA
CCAAAAGGAAAAGACAGTAAGAAAGAGCGAGATGCGAGAACACTTTTGGCTAAAAATCTC
CCTTACAAGTCACTCAGGATGAATTGAAAGAAGTGTGTTGAAGATGCTGCGGAGATCAGA
TTAGTCAGCAAGGATGGGAAAAGTAAAGGGATTGCTTATATTGAATTTAAGACAGAAGCT
GATGCAGAGAAAACCTTTGAAGAAAAGCAGGGAACAGAGATCGATGGGCGATCTATTTCC
CTGTAATACTGGAGAGAAAGGTCAAAATCAAGACTATAGAGGTGAAAGAATAGCACT
TGGAGTGGTGAATCAAAAACCTCTGGTTTTAAGCAACCTCTCTACAGTGCAACAGAAAGAA
ACTCTTCAGGAAGTATTTGAGAAAGCAACTTTTATCAAAGTACCCAGAACCAAAATGGC
AAATCTAAAGGTATGCATTTATAGAGTTTGCTTCATTGCAAGACGCTAAAGAAGCTTTA
AATTCCTGTAATAAAAGGAAAATTGAGGGCAGAGCAATCAGGCTGGAGTTGCAAGGACCC
AGGGGATCACCTAATGCCAGAAGCCAGCCATCCAAAACCTCTGTTTGTCAAAGGCCTGTCT
GAGGATACCACTGAAGAGACATTAAGGAGTCATTTGACGGCTCCGTTCCGGGCAAGGATA
GTTACTGACCGGAAACTGGGTCCTCAAAGGGTTTTGGTTTTGTAGACTTCAACAGTGAG
GAGGATGCCAAAGCTGCCAAGGAGGCCATGGAAGACGGTGAATTTGATGGAAATAAAGTT
ACCTTGGACTGGGCCAAACCTAAGGGTGAAGGTGGCTTCGGGGTCTGTTGGAGGCAGA
GGCGGCTTTGGAGGACGAGGTGGTGGTAGAGGAGGCCGAGGAGGATTTGGTGGCAGAGGC
CGGGGAGGCTTTGGAGGGCGAGGAGGCTTCCGAGGAGGCAGAGGAGGAGGAGGTGACCAC
AAGCCACAAGGAAAGAAGACGAAGTTTGAATAG

```

Clone variation with respect to NM\_005381.2

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005381 unedited  
 ATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCGAGCTCTCGC  
 TGGCCTTCGGGTGTACGTGCTCCGGGATCTTCAGCACCCGCGGCCGCATCGCCGTCGCT  
 TGGCTTCTTCTGGACTCATCTGCGCCACTTGTCCGCTTACACTCCGCCGCCATCATGGT  
 GAAGCTCGGAAGGCAGGTAAAAATCAAGGTGACCCCAAGAAAATGGCTCCTCTCCAAA  
 GGAGGTAGAAGAAGATAGTGAAGATGAGGAAATGTCAGAAGATGAAGAAGATGATAGCAG  
 TGGAGAAGAGGTGTCATACCTCAGAAGAAAGGCAAGAAGGCTGCTGCAACCTCAGCAAA  
 GAAGGTGGTCGTTTCCCAACAAAAAAGTTGTCAGTTGCCACACCAGCCAAGAAAGCAGC  
 TGTCACTCCAGGCAAAAAGGCAGCAGCAACACCTGCCAAGAAGACAGTTACACCAGCCAA  
 AGCAGTTACCACACTGGCAAGAAGGGAGCCACACCAGGCAAAGCATTGGTAGCAACTCC  
 TGGTAAGAAGGGTGTGCCATCCAGCCAAGGGGGCAAAGAATGGCAAGAATGCCAAGAA  
 GGAAGACAGTGATGAAGAGGAGGATGATGACAGTGAGGAGGATGAGGAGGATGACGAGGA  
 CGAGGATGAGGATGAAGATGAAATTGAACCAGCAGCGATGAAAGCAGCAGCTGGTGCCC  
 CCTGCCTCANAGGATGAGGACGATGANGATGACGAANATGATGAGGATGACGATGACGAT  
 GAGGAAGATGACTCTGAAGAAGAGCTTGGNAGACTACACCAGCCAAGGAAAGAAAGCTGC  
 AAAGNTGNTCTGTGAAGCCNANAACGTGCTGAGGATGAAAAGAAAANAAGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005381 unedited  
 AATAGCTAGNACCGCGGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGCACC  
 AAAGTTGACTTTTAAATTTGTCCTAAAGCCGCTGAAGCAAAAACCATGATAAAACATTCTG  
 CTTTCTTTTCTTTTACAACCCACGAACGCAAAAAAAAAAAAAAAAAAAAAAACAACAAAA  
 AAAAGAAACAACAACAAAACCCAAACTATTTGTAGGAAAAATGGTTTTGTACATGGGAT  
 GAAACAATATAAATTCAAAACCTTACAGATAAGGGTTAGCTCTATCACTCAACTCTTTAAA  
 AAGTTTATATGAATATCCAGTCAAAACCAACACGGTATTGCCCTTGAAATGTTAACTAGA  
 CGGATTTCCAAGGAGACCACAGGACTGTACTGTCTTGGAAATGCTCAGAAAGGCTCTG  
 TCATTGATCAGGTAACAGTAAAAACCCAGAGTCTTTCTTTCAAATGGAAAAGGAAAG  
 CAGAGGGACAGAAGCTATTCAAACCTCGTCTTCTTTCTTGTGGCTTGTGGTCACCTCCT  
 CCTCCTCGCCTCCTCGGAAGCCTCCTCGCCCTCCAAAGCCTCCCCGGCCTCTGCCACCA  
 AATCCTCCTCGGCCTCCTACCACCACCTCGTCTCCTCAAAGCCGCTCTGCCTCCACCA  
 CGACCCCGAAGCCACCTTACCCTTAGGTTTGGCCAGTCCAAGTAACCTTATTTCCAT  
 CNTTTACCCGTCTTCCATGGCCTCCCTGGGAGCTTTGGCATCCCCCTCACTGTTGAAGTC  
 TACAAAACCAAACCTTTGGAGGACCCAGTTTCCCGGCAGTACTATCCTTGCCCGAACG  
 GACCCGCAAAAGACTCCTTAAAGGCCCTCAGGGGTACCCTCAAAAAGGCCTTGACAAAAG  
 ATTTTTGGAGGGCGGGCTCGGGAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005381

**Insert Size:**

3000 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

**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\\_005381.2](#), [NP\\_005372.2](#)

**RefSeq Size:** 2732 bp

**RefSeq ORF:** 2133 bp

**Locus ID:** 4691

**UniProt ID:** [P19338](#)

**Cytogenetics:** 2q37.1

**Domains:** RRM

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** Pathogenic Escherichia coli infection

**Gene Summary:** Nucleolin (NCL), a eukaryotic nucleolar phosphoprotein, is involved in the synthesis and maturation of ribosomes. It is located mainly in dense fibrillar regions of the nucleolus. Human NCL gene consists of 14 exons with 13 introns and spans approximately 11kb. The intron 11 of the NCL gene encodes a small nucleolar RNA, termed U20. [provided by RefSeq, Jul 2008]