

## Product datasheet for **SC319950**

### Nucleophosmin (NPM1) (NM\_001037738) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nucleophosmin (NPM1) (NM\_001037738) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nucleophosmin  
**Synonyms:** B23; NPM  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001037738.1  
GGGGTCCCTGGTGTGATTCCGTCCTGCGCGTTGTTCTCTGGAGCAGCGTCTTTTATCT  
CCGTCCGCCTTCTCTCTACCTAAGTGCCTGCCGCCACCCGATGGAAGATTTCGATGGACA  
TGGACATGAGCCCCCTGAGGCCCAAGACTATCTTTTCGGTTGTGAACTAAAGGCCGACA  
AAGATTATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTATCTTTAAGAACGG  
TCAGTTTAGGGGCTGGTCAAAGGATGAGTTGCACATTGTTGAAGCAGAGGCAATGAATT  
ACGAAGGCAGTCCAATTAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGG  
TTTCCCTTGGGGGCTTTGAAATAACACCACCAAGTGGTCTTAAGGTTGAAGTGTGGTTCAG  
GGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAG  
ATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGGTCTGCCCCGGAG  
GTGGTAGCAAGGTTCCACAGAAAAAGTAAAACCTGCTGCTGATGAAGATGATGACGATG  
ATGATGAAGAGGATGATGATGAAGATGATGATGATGATGATGATGATGATGATGATGATG  
AAGAAAAAGCGCCAGTGAAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGT  
CAAATCAGAAATGGAAAAGACTCAAACCATCATCAACACCAAGATCAAAGGACAAGAAT  
CCTTCAAGAAACAGGAAAAACTCCTAAAAACCAAAAGGACCTAGTTCTGTAGAAGACA  
TTAAAGCAAAAATGCAAGCAAGTATAGAAAAAGCGCATTGAACAGTCCTGGGCACTACAT  
GTGTCATCAACAATCCAGACTGAAGTCTTCTATTTTAACTCAATCCCCTTTTCTGATTT  
GCCACCATGCCTCTTCAGGCTGGAACAATCTCTTGGTCCCTAAAGCACTTTTCTCTG  
ACTGTGTGATTCAAGTGAACCTTGCCCTTTGCTTTCTATTACTGTGCATTTGCCTCACC  
TGACAATGTTTTAAATCGCCTTTGTATCTCCTTAGCTGCTCAATAAATATTTGAATGCAT  
CAA  
AAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001037738



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<b>OTI Disclaimer:</b>	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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001037738.1</a></u> , <u><a href="#">NP_001032827.1</a></u>
<b>RefSeq Size:</b>	1274 bp
<b>RefSeq ORF:</b>	780 bp
<b>Locus ID:</b>	4869
<b>UniProt ID:</b>	<u><a href="#">P06748</a></u>
<b>Cytogenetics:</b>	5q35.1
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
<b>Gene Summary:</b>	<p>The protein encoded by this gene is involved in several cellular processes, including centrosome duplication, protein chaperoning, and cell proliferation. The encoded phosphoprotein shuttles between the nucleolus, nucleus, and cytoplasm, chaperoning ribosomal proteins and core histones from the nucleus to the cytoplasm. This protein is also known to sequester the tumor suppressor ARF in the nucleolus, protecting it from degradation until it is needed. Mutations in this gene are associated with acute myeloid leukemia. Dozens of pseudogenes of this gene have been identified. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (3) utilizes an alternate 3'-terminal exon, compared to variant 1, resulting in a shorter protein (isoform 3) with a distinct C-terminus.</p>