OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC118573

Nucleophosmin (NPM1) (NM_002520) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nucleophosmin (NPM1) (NM_002520) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nucleophosmin
Synonyms:	B23; NPM
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_002520 edited
GAATTCGGCACGAGGCCGTCCTGCGCGGTTGTTCTCTGGAGCAGCGTTCTTTTATCTCCG
TCCGCCTTCTCTCCTACCTAAGTGCGTGCCGCCACCCGATGGAAGATTCGATGGACATGG
ACATGAGCCCCCTGAGGCCCCAGAACTATCTTTTCGGTTGTGAACTAAAGGCCGACAAAG
ATTATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTATCTTTAAGAACGGTCA
GTTTAGGGGCTGGTGCAAAGGATGAGTTGCACATTGTTGAAGCAGAGGCAATGAATTACG
AAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTT
CCCTTGGGGGCTTTGAAATAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGC
CAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATG
AAGAGGAGGAGGATGTGAAACTCTTAAGTATATCTGGAAAGCGGTCTGCCCCTGGAGGTG
GTAGCAAGGTTCCACAGAAAAAAGTAAAACTTGCTGCTGATGAAGATGATGACGATGATG
ATGAAGAGGATGATGATGAAGATGATGATGATGATTTTGATGATGAGGAAGCTGAAG
AAAAAGCGCCAGTGAAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAA
ATCAGAATGGAAAAGACTCAAAACCATCATCAACACCAAGATCAAAAGGACAAGAATCCT
TCAAGAAACAGGAAAAAACTCCTAAAACACCAAAAGGACCTAGTTCTGTAGAAGACATTA
AAGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGGAAGCCAAAT
TCATCAATTATGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCT
GGCAGTGGAGGAAGTCTCTTTAAGAAAATAGTTTAAACAATTTGTTAAAAAATTTTCCGT
CTTATTTCATTTCTGTAACAGTTGATATCTGGCTGTCCTTTTTATAATGCAGAGTGAGAA
CTTTCCCTACCGTGTTTGATAAATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTCCA
AAATGCCGTTTAGTTTTTAAAGATGGAACTCCACCCTTTGCTTGGTTTTAAGTATGTATG
GAATGTTATGATAGGACATAGTAGTAGCGGTGGTCAGACATGGAAATGGTGGGGAGACAA
AAATATACATGTGAAATAAAACTCAGTATTTTAATAAAGTAAAAAAAAAAAAAAAAAACT
CGAC

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002520 unedited
GATATTTGTATACGACTTACTATAGGGNNCGGCCGCGNAATTCGGCACGAGGCCGTCCTG
CGCGGTTGTTCTCTGGAGCAGCGTTCTTTTATCTCCGTCCGCCTTCTCTCCTACCTAAGT
GCGTGCCGCCACCCGATGGAAGATTCGATGGACATGGACATGAGCCCCCTGAGGCCCCAG
AACTATCTTTTCGGTTGTGAACTAAAGGCCGTACTTTGATTATCACTTTAAGGTGGATAA
TGATGAAAATGAGCACCAGTTATCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGA
TGAGTTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGTCCAATTAAAGTAAC
ACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAAATAAC
ACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCA
CTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAAACT
CTTAAGTATATCTGGAAAGCGGTCTGCCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAA
AGTAAAACTTGCTGCTGATGAAGATGATGACGATGATGATGAAGAGGATGATGATGAAGA
TGATGATGATGATGATTCTGATGATGAGGAAGCTGAAGACAAAGCGCCAGTGAAGAAATC
TATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGGAAAGACTCANA
ACCATCATCACCACCCAGATCAAAAGGACAAGAATCCTTCAAGAAACAGGAATAAACTTC
TAAACACCCAAAGCACCTAGTTCTGTAGAAGACATTTAAAGCAAAATGCAAGCAGTATAG
AAAAAGGTGGGTCTCCTCCCAAAGGGGGAGCCCAATTCATCATATGTGAAGAATGCTCCC
GTAGACTGACCANAGCTTN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002520 unedited
TTTCCCCCCCTCCNCCCCCCCCCCCCNCGTTGCGTTTGCTTTGGACCGCGGCCGCATCCT
ACGATCGAGTTTTTTTTTTTTTTTTTACTTTATTAAAAACTGAGTTTTATTCTCACATG
TATATTTTTGTACTCCCCACCATTTCCATGTCTGACCACCGCTACTACTATGTCCTATCA
TAACATTCCATACATACTTAAAACCAAGCAAAGGGTGGAGTTCCATCTTTAAAAACTAAA
CGGCATTTTGGACAACACATTCTTGGCAATAGAACCTGGACAACATTTATCAAACACGGT
AGGGAAAGTTCTCACTCTGCATTATAAAAAGGACAGTCAGATATCAACTGTTACAGAAAT
GAAATAAGACGGAAAATTTTTTAACAAATTGTTTAAACTATTTTCTTAAAGAGACTTCCT
CCACTGCCAGAGATCTTGAATAGCCTCTTGGTCAGTCATCCGGAAGCAATTCTTCACATA
ATTGATGAATTTGGCTTCCACTTTGGGAAGAGAACCACCTTTTTCTATACTTGCTTGCAT
TTTTGCTTTAATGTCTTCTACAGAACTAGGTCCTTTTGGTGTTTTAGGAGTTTTTTCCTG
TTTCTTGAAGGATTCTTGTCCTTTTGATCTTGGCGTTGACGATGGTTTTGAGTCTTTTCC
ATTCTGATTTGACTTTTGTGCATTTTTGGCTGGAGTATCCTCGATCGATTTCTTCACTGG
CGCTTTTTCTTCAGCTTTCTCATCATCAAAAANATCATCATCATCACTCTCCACATCATT
CCTCTTCACCACCATCGGCATCATTCTTCATCAACAGCAAAGTTTTACTTCTTTTTTGGG
GAACCTTTGCTACAACCTTCAGGGGGCAGAACCGCTTTTTCCAAAAATTATTTAAGGAGT
TTCCCATCCCTCCCTCCCTCTTTCATCTTCTGAACACTGGCAATCTTCCTCCACAAGATA

Restriction Sites: NotI-NotI

ACCN: NM_002520

Insert Size: 1310 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 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_002520.4, NP_002511.1
RefSeq Size:	1350 bp
RefSeq ORF:	885 bp
Locus ID:	4869
UniProt ID:	P06748
Cytogenetics:	5q35.1
Domains:	Nucleoplasmin
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Gene Summary:	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] Transcript Variant: This variant (1) encodes the longest isoform (1). Variants 1 and 7 both encode the same isoform (1).