

Product datasheet for **RG203344**

Nucleophosmin (NPM1) (NM_002520) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nucleophosmin (NPM1) (NM_002520) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nucleophosmin
Synonyms:	B23; NPM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203344 representing NM_002520 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGATTCGATGGACATGGACATGAGCCCCCTGAGGCCCCAGAACTATCTTTTCGGTTGTGAACTAA
AGGCCGACAAAGATTCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTATCTTTAAGAACGGT
CAGTTTAGGGCTGGTGCAAAGGATGAGTTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGT
CCAATTAAGTAACACTGGCACTTTGAAAATGTCTGTACAGCCAACGGTTCCCTTGGGGCTTTGAAA
TAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCAGTCTAGT
AGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGA
AAGCGGTCTGCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAGTAAAACCTGCTGCTGATGAAGATG
ATGACGATGATGATGAAGAGGATGATGATGAAGATGATGATGATGATGATTTTTGATGATGAGGAAGCTGA
AGAAAAAGCGCCAGTGAAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAAT
GGAAAAGACTCAAACCATCATCAACCAAGATCAAAGGACAAGAATCCTTCAAGAAACAGGAAAAAA
CTCCTAAAACACCAAAAGGACCTAGTTCTGTAGAAGACATTAAGCAAAAATGCAAGCAAGTATAGAAAA
AGGTGGTTCTCTCCAAAAGTGAAGCCAAATTCATCAATTATGTGAAGAATTGCTTCCGGATGACTGAC
CAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAGTCTCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203344 representing NM_002520
 Red=Cloning site Green=Tags(s)

MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNENEHQLSLRTVSLGAGAKDELHIVEAEAMNYEGS
 PIKVTLATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAEESEDEEEEDVKLLSISG
 KRSAPGGGSKVPQKKVKLAADEDDEDDDEDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQN
 GKDSKPSSTPRSKGQESFKKQEKTPKTPKGPSSVEDIKAKMQASIEKGGSLPKVEAKFINVVKNCFRMTD
 QEAIQDLWQWRKSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002520

ORF Size: 882 bp

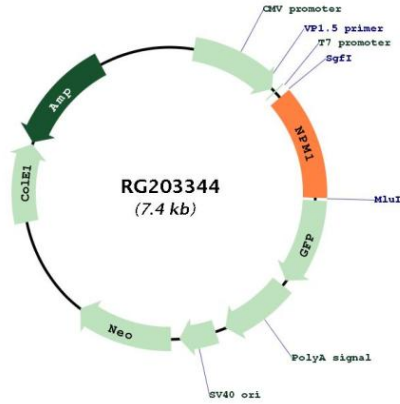
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_002520.7</u>
RefSeq Size:	1350 bp
RefSeq ORF:	885 bp
Locus ID:	4869
UniProt ID:	<u>P06748</u>
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]

Product images:



Circular map for RG203344