

Product datasheet for **TF302897**

Nucleophosmin (NPM1) Human shRNA Plasmid Kit (Locus ID 4869)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Nucleophosmin (NPM1) Human shRNA Plasmid Kit (Locus ID 4869)
Locus ID:	4869
Synonyms:	B23; NPM
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	NPM1 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 4869). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	NM_001037738 , NM_002520 , NM_199185 , NM_001355006 , NM_001355007 , NM_001355009 , NM_001355010 , NR_149149 , NM_002520.1 , NM_002520.2 , NM_002520.3 , NM_002520.4 , NM_002520.5 , NM_002520.6 , NM_199185.1 , NM_199185.2 , NM_199185.3 , NM_001037738.1 , NM_001037738.2 , BC008495 , BC009623 , BC009623.2 , BC107754 , BC107754.1 , BC002398 , BC003670 , BC012566 , BC014349 , BC016716 , BC016768 , BC016824 , BC020467 , BC021668 , BC021983 , BC024716 , BC050628 , NM_002520.7 , NM_001037738.3
UniProt ID:	P06748
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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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**Performance
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).