

## Product datasheet for **TR311147**

### **NOLC1 Human shRNA Plasmid Kit (Locus ID 9221)**

#### **Product data:**

Product Type:	shRNA Plasmids
Product Name:	NOLC1 Human shRNA Plasmid Kit (Locus ID 9221)
Locus ID:	9221
Synonyms:	NOPP130; NOPP140; NS5ATP13; P130; Srp40
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	NOLC1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 9221). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001284388</a> , <a href="#">NM_001284389</a> , <a href="#">NM_004741</a> , <a href="#">NM_004741.1</a> , <a href="#">NM_004741.2</a> , <a href="#">NM_004741.3</a> , <a href="#">NM_004741.4</a> , <a href="#">NM_001284389.1</a> , <a href="#">NM_001284388.1</a> , <a href="#">BC001883</a> , <a href="#">BC001883.1</a> , <a href="#">BC006769</a> , <a href="#">BM473772</a> , <a href="#">BM849059</a> , <a href="#">NM_001284389.2</a> , <a href="#">NM_004741.5</a>
UniProt ID:	<a href="#">Q14978</a>
Summary:	Nucleolar protein that acts as a regulator of RNA polymerase I by connecting RNA polymerase I with enzymes responsible for ribosomal processing and modification (PubMed:10567578, PubMed:26399832). Required for neural crest specification: following monoubiquitination by the BCR(KBTBD8) complex, associates with TCOF1 and acts as a platform to connect RNA polymerase I with enzymes responsible for ribosomal processing and modification, leading to remodel the translational program of differentiating cells in favor of neural crest specification (PubMed:26399832). Involved in nucleologenesis, possibly by playing a role in the maintenance of the fundamental structure of the fibrillar center and dense fibrillar component in the nucleolus (PubMed:9016786). It has intrinsic GTPase and ATPase activities (PubMed:9016786).[UniProtKB/Swiss-Prot Function]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .


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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](mailto: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).