

## Product datasheet for TR302221

### PSPC1 Human shRNA Plasmid Kit (Locus ID 55269)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	PSPC1 Human shRNA Plasmid Kit (Locus ID 55269)
Locus ID:	55269
Synonyms:	PSP1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PSPC1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 55269). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001042414</a> , <a href="#">NM_018282</a> , <a href="#">NR_003272</a> , <a href="#">NR_044998</a> , <a href="#">NM_001354908</a> , <a href="#">NM_001354909</a> , <a href="#">NR_149052</a> , <a href="#">NR_149053</a> , <a href="#">NM_001042414.1</a> , <a href="#">NM_001042414.2</a> , <a href="#">NM_018282.1</a> , <a href="#">NM_018282.2</a> , <a href="#">BC014184</a> , <a href="#">BM981042</a> , <a href="#">NR_156729</a> , <a href="#">NM_001363660</a> , <a href="#">NM_001042414.3</a> , <a href="#">NM_001042414.4</a>
UniProt ID:	<a href="#">Q8WXF1</a>
Summary:	This gene encodes a nucleolar protein that localizes to punctate subnuclear structures that occur close to splicing speckles, known as paraspeckles. These paraspeckles are composed of RNA-protein structures that include a non-coding RNA, NEAT1/Men epsilon/beta, and the Drosophila Behavior Human Splicing family of proteins, which include the product of this gene and the P54NRB/NONO and PSF/SFPQ proteins. Paraspeckles may function in the control of gene expression via an RNA nuclear retention mechanism. The protein encoded by this gene is found in paraspeckles in transcriptionally active cells, but it localizes to unique cap structures at the nucleolar periphery when RNA polymerase II transcription is inhibited, or during telophase. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene, which is also located on chromosome 13, has been identified. [provided by RefSeq, Aug 2011]
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).