

## Product datasheet for **TL310090**

### Phosphoserine phosphatase (PSPH) Human shRNA Plasmid Kit (Locus ID 5723)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Phosphoserine phosphatase (PSPH) Human shRNA Plasmid Kit (Locus ID 5723)
Locus ID:	5723
Synonyms:	PSP; PSPHD
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	PSPH - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 5723). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">BC065228</a> , <a href="#">NM_004577</a> , <a href="#">NM_004577.1</a> , <a href="#">NM_004577.2</a> , <a href="#">BC063614</a> , <a href="#">BC052958</a> , <a href="#">NM_001370503</a> , <a href="#">NM_001370506</a> , <a href="#">NM_001370507</a> , <a href="#">NM_001370508</a> , <a href="#">NM_001370510</a> , <a href="#">NM_001370512</a> , <a href="#">NM_001370515</a> , <a href="#">NM_001370516</a> , <a href="#">NM_001370518</a> , <a href="#">NM_001370519</a> , <a href="#">NM_001370520</a> , <a href="#">NM_001370522</a> , <a href="#">NM_001370504</a> , <a href="#">NM_001370505</a> , <a href="#">NM_001370509</a> , <a href="#">NM_001370511</a> , <a href="#">NM_001370513</a> , <a href="#">NM_001370514</a> , <a href="#">NM_001370517</a> , <a href="#">NM_001370521</a> , <a href="#">NM_004577.4</a>
UniProt ID:	<a href="#">P78330</a>
Summary:	The protein encoded by this gene belongs to a subfamily of the phosphotransferases. This encoded enzyme is responsible for the third and last step in L-serine formation. It catalyzes magnesium-dependent hydrolysis of L-phosphoserine and is also involved in an exchange reaction between L-serine and L-phosphoserine. Deficiency of this protein is thought to be linked to Williams syndrome. [provided by RefSeq, Jul 2008]
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> .



[View online »](#)

**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).