

## Product datasheet for TL310231

### PPP1R3D Human shRNA Plasmid Kit (Locus ID 5509)

#### Product data:

<b>Product Type:</b>	shRNA Plasmids
<b>Locus ID:</b>	5509
<b>Synonyms:</b>	PPP1R6
<b>Vector:</b>	pGFP-C-shLenti (TR30023)
<b>E. coli Selection:</b>	Chloramphenicol (34 ug/ml)
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Format:</b>	Lentiviral plasmids
<b>Components:</b>	PPP1R3D - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector (Gene ID = 5509). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
<b>RefSeq:</b>	<a href="#">NM_006242</a> , <a href="#">NM_006242.2</a> , <a href="#">NM_006242.3</a> , <a href="#">BC047502</a> , <a href="#">BC047502.1</a> , <a href="#">BC074860</a> , <a href="#">BC074861</a> , <a href="#">NM_006242.4</a>
<b>UniProt ID:</b>	<a href="#">O95685</a>
<b>Summary:</b>	Phosphorylation of serine and threonine residues in proteins is a crucial step in the regulation of many cellular functions ranging from hormonal regulation to cell division and even short-term memory. The level of phosphorylation is controlled by the opposing actions of protein kinases and protein phosphatases. Protein phosphatase 1 (PPI) is 1 of 4 major serine/threonine-specific protein phosphatases which have been identified in eukaryotic cells. PPI associates with various regulatory subunits that dictate its subcellular localization and modulate its substrate specificity. Several subunits that target PPI to glycogen have been identified. This gene encodes a glycogen-targeting subunit of PPI. [provided by RefSeq, Jul 2008]
<b>shRNA Design:</b>	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> .



**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).