

## Product datasheet for **TL315629**

### **PALM2-AKAP2 Human shRNA Plasmid Kit (Locus ID 445815)**

#### **Product data:**

<b>Product Type:</b>	shRNA Plasmids
<b>Product Name:</b>	PALM2-AKAP2 Human shRNA Plasmid Kit (Locus ID 445815)
<b>Locus ID:</b>	445815
<b>Synonyms:</b>	AKAP-2; AKAP-KL; AKAP2; AKAPKL; MISP2; PALM2; PALM2-AKAP2; PRKA2
<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>	PALM2-AKAP2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 445815). 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_001004065</a> , <a href="#">NM_001037293</a> , <a href="#">NM_001136562</a> , <a href="#">NM_001198656</a> , <a href="#">NM_007203</a> , <a href="#">NM_053016</a> , <a href="#">NM_147150</a> , <a href="#">NM_001037293.2</a> , <a href="#">NM_007203.3</a> , <a href="#">NM_007203.4</a> , <a href="#">NM_147150.1</a> , <a href="#">NM_147150.2</a> , <a href="#">NM_001004065.4</a> , <a href="#">NM_001136562.2</a> , <a href="#">NM_001198656.1</a> , <a href="#">BC140818</a> , <a href="#">NM_053016.6</a> , <a href="#">NM_147150.3</a> , <a href="#">NM_007203.5</a>
<b>UniProt ID:</b>	<a href="#">Q9Y2D5</a>
<b>Summary:</b>	This gene belongs to the paralemmin downstream gene (PDG) family defined in PMID:22855693. Paralemmin downstream genes may have evolved contiguously with the paralemmin genes and are associated with other paralemmin paralogs in humans and several other taxa. The gene encodes three distinct protein isoforms, the PALM2 isoform, the AKAP2 isoform and the PALM2-AKAP2 isoform. The biological significance of the PALM2-AKAP2 isoforms is yet unknown. Earlier, PALM2 and AKAP2 were annotated as separate genes and PALM2-AKAP2 was annotated as a readthrough gene. [provided by RefSeq, May 2019]
<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> .



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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).