

## Product datasheet for **TL310291**

### mtRNA polymerase (POLRMT) Human shRNA Plasmid Kit (Locus ID 5442)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	mtRNA polymerase (POLRMT) Human shRNA Plasmid Kit (Locus ID 5442)
Locus ID:	5442
Synonyms:	APOLMT; h-mtRPOL; MTRNAP; MTRPOL
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	POLRMT - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 5442). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_005035</a> , <a href="#">NM_005035.1</a> , <a href="#">NM_005035.2</a> , <a href="#">NM_005035.3</a> , <a href="#">BC098387</a> , <a href="#">BC098387.1</a> , <a href="#">BC024170</a> , <a href="#">BC030829</a> , <a href="#">BC070057</a> , <a href="#">NM_005035.4</a>
UniProt ID:	<a href="#">O00411</a>
Summary:	This gene encodes a mitochondrial DNA-directed RNA polymerase. The gene product is responsible for mitochondrial gene expression as well as for providing RNA primers for initiation of replication of the mitochondrial genome. Although this polypeptide has the same function as the three nuclear DNA-directed RNA polymerases, it is more closely related to RNA polymerases of phage and mitochondrial polymerases of lower eukaryotes. [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> .


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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).