

## Product datasheet for **TR317197**

### **HSPC152 (TRMT112) Human shRNA Plasmid Kit (Locus ID 51504)**

#### **Product data:**

<b>Product Type:</b>	shRNA Plasmids
<b>Product Name:</b>	HSPC152 (TRMT112) Human shRNA Plasmid Kit (Locus ID 51504)
<b>Locus ID:</b>	51504
<b>Synonyms:</b>	HSPC152; HSPC170; hTrm112; TRM112; TRMT11-2
<b>Vector:</b>	pRS (TR20003)
<b>E. coli Selection:</b>	Ampicillin
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Format:</b>	Retroviral plasmids
<b>Components:</b>	TRMT112 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 51504). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
<b>RefSeq:</b>	<a href="#">NM_001286082</a> , <a href="#">NM_001286084</a> , <a href="#">NM_016404</a> , <a href="#">NM_016404.1</a> , <a href="#">NM_016404.2</a> , <a href="#">NM_001286084.1</a> , <a href="#">NM_001286082.1</a> , <a href="#">BC017172</a> , <a href="#">BC017172.2</a> , <a href="#">BC029482</a> , <a href="#">BC105294</a> , <a href="#">NM_001286082.2</a> , <a href="#">NM_001286084.2</a> , <a href="#">NM_016404.3</a>
<b>UniProt ID:</b>	<a href="#">Q9UI30</a>
<b>Summary:</b>	Acts as an activator of both rRNA/tRNA and protein methyltransferases (PubMed:25851604). Together with methyltransferase BUD23, methylates the N(7) position of a guanine in 18S rRNA (PubMed:25851604). The heterodimer with HEMK2/N6AMT1 catalyzes N5-methylation of ETF1 on 'Gln-185', using S-adenosyl L-methionine as methyl donor (PubMed:18539146). The heterodimer with ALKBH8 catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA species (PubMed:20308323). Involved in the pre-rRNA processing steps leading to small-subunit rRNA production (PubMed:25851604).[UniProtKB/Swiss-Prot Function]
<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).