

## Product datasheet for **TR301900**

### **p53R2 (RRM2B) Human shRNA Plasmid Kit (Locus ID 50484)**

#### **Product data:**

<b>Product Type:</b>	shRNA Plasmids
<b>Product Name:</b>	p53R2 (RRM2B) Human shRNA Plasmid Kit (Locus ID 50484)
<b>Locus ID:</b>	50484
<b>Synonyms:</b>	MTDPS8A; MTDPS8B; P53R2
<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>	RRM2B - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 50484). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
<b>RefSeq:</b>	<a href="#">NM_001172477</a> , <a href="#">NM_001172478</a> , <a href="#">NM_015713</a> , <a href="#">NM_015713.1</a> , <a href="#">NM_015713.2</a> , <a href="#">NM_015713.3</a> , <a href="#">NM_015713.4</a> , <a href="#">NM_001172478.1</a> , <a href="#">NM_001172477.1</a> , <a href="#">BC108261</a> , <a href="#">BC108261.1</a> , <a href="#">BC042468</a> , <a href="#">BC042948</a> , <a href="#">BC117496</a> , <a href="#">BC130628</a> , <a href="#">NM_015713.5</a> , <a href="#">NM_001172478.2</a>
<b>UniProt ID:</b>	<a href="#">Q7LG56</a>
<b>Summary:</b>	This gene encodes the small subunit of a p53-inducible ribonucleotide reductase. This heterotetrameric enzyme catalyzes the conversion of ribonucleoside diphosphates to deoxyribonucleoside diphosphates. The product of this reaction is necessary for DNA synthesis. Mutations in this gene have been associated with autosomal recessive mitochondrial DNA depletion syndrome, autosomal dominant progressive external ophthalmoplegia-5, and mitochondrial neurogastrointestinal encephalopathy. Alternatively spliced transcript variants have been described.[provided by RefSeq, Feb 2010]
<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).