

## Product datasheet for **TL303165V**

### MRPL43 Human shRNA Lentiviral Particle (Locus ID 84545)

#### Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	MRPL43 Human shRNA Lentiviral Particle (Locus ID 84545)
Locus ID:	84545
Synonyms:	bMRP36a; L43mt; MRP-L43
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	MRPL43 - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 <sup>7</sup> TU/ml.
RefSeq:	<a href="#">NM_001308396</a> , <a href="#">NM_032112</a> , <a href="#">NM_176792</a> , <a href="#">NM_176793</a> , <a href="#">NM_176794</a> , <a href="#">NM_032112.1</a> , <a href="#">NM_032112.2</a> , <a href="#">NM_176792.1</a> , <a href="#">NM_176792.2</a> , <a href="#">NM_176793.1</a> , <a href="#">NM_176794.1</a> , <a href="#">BC015905</a> , <a href="#">BC015905.1</a> , <a href="#">BC041165</a> , <a href="#">BC053373</a> , <a href="#">BC031287</a> , <a href="#">BC052639</a> , <a href="#">BM455058</a> , <a href="#">NM_176792.3</a> , <a href="#">NM_176793.2</a> , <a href="#">NM_032112.3</a>
UniProt ID:	<a href="#">Q8N983</a>
Summary:	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein. This gene and the gene for a semaphorin class 4 protein (SEMA4G) overlap at map location 10q24.31 and are transcribed in opposite directions. Sequence analysis identified multiple transcript variants encoding at least four different protein isoforms. [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).