

## Product datasheet for **TR512732**

### Mtrr Mouse shRNA Plasmid (Locus ID 210009)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Mtrr Mouse shRNA Plasmid (Locus ID 210009)
Locus ID:	210009
Synonyms:	4732420G08; MSR
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Mtrr - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 210009). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC025942</a> , <a href="#">NM_172480</a> , <a href="#">NR_131892</a> , <a href="#">NM_172480.1</a> , <a href="#">NM_172480.2</a> , <a href="#">NM_172480.3</a> , <a href="#">BC031565</a> , <a href="#">BC066796</a>
UniProt ID:	<a href="#">Q8C1A3</a>
Summary:	Methionine is an essential amino acid required for protein synthesis and one-carbon metabolism. Its synthesis is catalyzed by the enzyme methionine synthase. Methionine synthase eventually becomes inactive due to the oxidation of its cob(I)alamin cofactor. The protein encoded by this gene regenerates a functional methionine synthase via reductive methylation. It is a member of the ferredoxin-NADP(+) reductase (FNR) family of electron transferases. Mutations in a similar gene in human have been associated with cbIE complementation type homocystinuria-megaloblastic anemia and susceptibility to folate-sensitive neural tube defects. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2015]
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).