

## Product datasheet for **SR303002**

### MTRR Human siRNA Oligo Duplex (Locus ID 4552)

#### Product data:

Product Type:	siRNA Oligo Duplexes
Purity:	HPLC purified
Quality Control:	Tested by ESI-MS
Sequences:	Available with shipment
Stability:	One year from date of shipment when stored at -20°C.
# of transfections:	Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).
Note:	Single siRNA duplex (10nmol) can be ordered.
RefSeq:	<a href="#">NM_002454</a> , <a href="#">NM_024010</a> , <a href="#">NR_134480</a> , <a href="#">NR_134481</a> , <a href="#">NR_134482</a> , <a href="#">NM_001364440</a> , <a href="#">NM_001364442</a> , <a href="#">NR_157168</a> , <a href="#">NR_157172</a> , <a href="#">NR_157175</a> , <a href="#">NR_157176</a> , <a href="#">NR_157177</a> , <a href="#">NR_157178</a> , <a href="#">NM_001364441</a> , <a href="#">NR_157169</a> , <a href="#">NR_157170</a> , <a href="#">NR_157171</a> , <a href="#">NR_157173</a> , <a href="#">NR_157174</a>
UniProt ID:	<a href="#">Q9UBK8</a>
Synonyms:	cblE; MSR
Components:	MTRR (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 4552) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	This gene encodes a member of the ferredoxin-NADP(+) reductase (FNR) family of electron transferases. This protein functions in the synthesis of methionine by regenerating methionine synthase to a functional state. Because methionine synthesis requires methyl-group transfer by a folate donor, activity of the encoded enzyme is important for folate metabolism and cellular methylation. Mutations in this gene can cause homocystinuria-megaloblastic anemia, cbl E type. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2015]



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**Performance  
Guaranteed:**

OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will provide at least 70% or more knockdown of the target mRNA when used at 10 nM concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT positive control (cat# SR30003) provides 90% knockdown efficiency.

For non-conforming siRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with newly designed duplexes, 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 siRNA control (quantitative RT-PCR data required).