

## Product datasheet for **SR420999**

### Aco1 Mouse siRNA Oligo Duplex (Locus ID 11428)

#### 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_007386</a>   |
| UniProt ID:         | <a href="#">P28271</a>  |
| Synonyms:           | Aco-1; Irebp; Irp1  |
| Components:         | Aco1 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 11428)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol<br>Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml  |
| Summary:            | This gene encodes a member of the aconitase/IPM isomerase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Depending on iron levels in the cytosol, the encoded protein can function as either an aconitase enzyme or as an mRNA binding protein. When cellular iron levels are high, the encoded protein functions as an aconitase, an essential enzyme in the TCA cycle that catalyzes the conversion of citrate to isocitrate. When cellular iron levels are low, the encoded protein regulates iron uptake and utilization by binding to iron-responsive elements in the untranslated regions of mRNAs for genes involved in iron metabolism. Disruption of this gene is associated with pulmonary hypertension and polycythemia. [provided by RefSeq, Jan 2014] |



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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).