

## Product datasheet for **SR403008**

### Cst10 Mouse siRNA Oligo Duplex (Locus ID 58214)

#### Product data:

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Type:</b>       | siRNA Oligo Duplexes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity:</b>             | HPLC purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Quality Control:</b>    | Tested by ESI-MS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Sequences:</b>          | Available with shipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Stability:</b>          | One year from date of shipment when stored at -20°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b># of transfections:</b> | Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Note:</b>               | Single siRNA duplex (10nmol) can be ordered.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RefSeq:</b>             | <a href="#">NM_021405</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID:</b>         | <a href="#">Q9JM84</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms:</b>           | DD72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Components:</b>         | Cst10 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 58214)<br>Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol<br>Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml                                                                                                                                                                                                                                                                                                               |
| <b>Summary:</b>            | May play a role in the last steps of the chondrocyte differentiation pathway as an inducer of maturation (PubMed:13679380). Induces chondrocyte calcification during endochondral ossification by playing a role in the transcriptional inhibition of ENPP1, a generator of pyrophosphate which inhibits calcification (PubMed:16680148). Possibly impairs the binding of a transcription factor to the ENPP1 promoter (PubMed:16680148). Unlike other cystatins, does not have thiol protease inhibitor activity (PubMed:16680148).[UniProtKB/Swiss-Prot Function] |



**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).