

## Product datasheet for **SR418170**

### **Pias2 Mouse siRNA Oligo Duplex (Locus ID 17344)**

#### **Product data:**

|                            |   |
|----------------------------|---|
| <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>             | <u><a href="#">NM_001164167</a></u> , <u><a href="#">NM_001164168</a></u> , <u><a href="#">NM_001164169</a></u> , <u><a href="#">NM_001164170</a></u> , <u><a href="#">NM_008602</a></u>  |
| <b>UniProt ID:</b>         | <u><a href="#">Q8C5D8</a></u>   |
| <b>Synonyms:</b>           | 6330408K17Rik; AI462206; ARIP3; AU018068; Dib; Miz1; PIASxalpha; PIASxb; PIASxbeta; SIZ2  |
| <b>Components:</b>         | Pias2 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 17344)<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>            | Functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, stabilizing the interaction between UBE2I and the substrate, and as a SUMO-tethering factor. Plays a crucial role as a transcriptional coregulation in various cellular pathways, including the STAT pathway, the p53 pathway and the steroid hormone signaling pathway. The effects of this transcriptional coregulation, transactivation or silencing may vary depending upon the biological context and PIAS2 isoform studied. However, it seems to be mostly involved in gene silencing. Binds to sumoylated ELK1 and enhances its transcriptional activity by preventing recruitment of HDAC2 by ELK1, thus reversing SUMO-mediated repression of ELK1 transactivation activity. Isoform PIASx-beta, but not isoform PIASx-alpha, promotes MDM2 sumoylation. Isoform PIASx-alpha promotes PARK7 sumoylation. Isoform PIASx-beta promotes NCOA2 sumoylation more efficiently than isoform PIASx-alpha (By similarity). Sumoylates PML at'Lys-65' and 'Lys-160' (By similarity).[UniProtKB/Swiss-Prot Function] |



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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).