

## Product datasheet for **SR308930**

### TPK1 Human siRNA Oligo Duplex (Locus ID 27010)

#### 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_001042482</a> , <a href="#">NM_022445</a> , <a href="#">NM_001350879</a> , <a href="#">NM_001350880</a> , <a href="#">NM_001350881</a> , <a href="#">NM_001350882</a> , <a href="#">NM_001350883</a> , <a href="#">NM_001350884</a> , <a href="#">NM_001350885</a> , <a href="#">NM_001350886</a> , <a href="#">NM_001350887</a> , <a href="#">NM_001350889</a> , <a href="#">NM_001350893</a> , <a href="#">NM_001350894</a> , <a href="#">NM_001350895</a> , <a href="#">NR_146935</a> , <a href="#">NR_146936</a> , <a href="#">NR_146934</a>
UniProt ID:	<a href="#">Q9H3S4</a>
Synonyms:	HTPK1; PP20; THMD5
Components:	TPK1 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 27010) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	The protein encoded by this gene functions as a homodimer and catalyzes the conversion of thiamine to thiamine pyrophosphate, a cofactor for some enzymes of the glycolytic and energy production pathways. Defects in this gene are a cause of thiamine metabolism dysfunction syndrome-5. [provided by RefSeq, Apr 2017]



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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).