

Product datasheet for **SR419121**

Nphp1 Mouse siRNA Oligo Duplex (Locus ID 53885)

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:	NM_001291012 , NM_001291013 , NM_016902 , NM_001355429 , NM_001369236
UniProt ID:	Q9QY53
Components:	Nphp1 (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 53885) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	Together with BCAR1 it may play a role in the control of epithelial cell polarity. Involved in the organization of apical junctions in kidney cells, together with NPHP4 and RPGRIP1L/NPHP8 (PubMed:21565611). Does not seem to be strictly required for ciliogenesis (PubMed:19208653). Seems to help to recruit PTK2B/PYK2 to cell matrix adhesions, thereby initiating phosphorylation of PTK2B/PYK2 and PTK2B/PYK2-dependent signaling (PubMed:11493697). May play a role in the regulation of intraflagellar transport (IFT) during cilia assembly (PubMed:19208653). Required for normal retina development (PubMed:19208653). In connecting photoreceptor cilia influences the movement of some IFT proteins such as IFT88 and WDR19 (PubMed:19208653). Involved in spermatogenesis; required for the differentiation of early elongating spermatids into spermatozoa (PubMed:18684731).[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. 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).