

Product datasheet for **SR414205**

Noct Mouse siRNA Oligo Duplex (Locus ID 12457)

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_009834
UniProt ID:	Q35710
Synonyms:	AU043840; Ccr4; Ccrn4l
Components:	Noct (Mouse) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 12457) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	Represses translation and promotes degradation of target mRNA molecules (By similarity). Plays an important role in post-transcriptional regulation of metabolic genes under circadian control (PubMed:20685873, PubMed:20498072). May have low deadenylase activity and may degrade the poly(A) tails of specific target mRNAs, leading to their degradation and suppression of translation (PubMed:17400819). Exerts a rhythmic post-transcriptional control of genes necessary for metabolic functions including nutrient absorption, glucose/insulin sensitivity, lipid metabolism, adipogenesis, inflammation and osteogenesis (PubMed:20498072, PubMed:22082366, PubMed:21820310, PubMed:22073225, PubMed:22331129). Plays an important role in favoring adipogenesis over osteoblastogenesis and acts as a key regulator of the adipogenesis/osteogenesis balance (PubMed:20498072, PubMed:22082366). Promotes adipogenesis by activating PPARG transcriptional activity in a deadenylase-independent manner by facilitating its nuclear translocation (PubMed:20498072). Regulates circadian expression of NOS2 in the liver and negatively regulates the circadian expression of IGF1 in the bone (PubMed:22073225, PubMed:20685873). Critical for proper development of early embryos (PubMed:23449310). [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).