

Product datasheet for **SR515195**

Egln1 Rat siRNA Oligo Duplex (Locus ID 308913)

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_178334
Synonyms:	HIF-PH2; HPH-2; PHD-2
Components:	Egln1 (Rat) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 308913) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml
Summary:	<p>This gene encodes a component of a transcriptional complex that plays a central role in mammalian oxygen homeostasis. Hypoxia reduces the activity of prolyl hydroxylases that hydroxylate specific proline residues of the hypoxia-inducible factor-1a (Hif1a). In the absence of hydroxylation, the Hif1a transcription factor accumulates and activates transcription of hypoxia-responsive target genes. This gene encodes one of the three known Hif-interacting 2-oxoglutarate/iron-dependent prolyl-hydroxylases (HIF-PHDs) in rat. Targeted disruption of this gene in mice produced embryonic lethality between embryonic day 12.5 and day 14.5. Based on the transcript data currently available for rat, this Reference Sequence is believed to contain the complete coding region for this gene. However, when compared to its mouse and human orthologs, it has a shorter 5' coding region and an incomplete N-terminus zf-MYND domain. This locus currently has limited transcript data and aligns to an unfinished region of the rat reference genome assembly. It is therefore uncertain whether its coding region can be extended at the 5' end to encode a complete zf-MYND domain, whether no further changes need to be made to its coding region, or whether it is a transcribed pseudogene that does not encode a functional protein. As more transcript and experimental data become available, the coding status of this locus may change. [provided by RefSeq, Jul 2008]</p>



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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).