

## **Product datasheet for SR515315**

## Rockville, MD 20850, US Phone: +1-888-267-4436

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## Eif6 Rat siRNA Oligo Duplex (Locus ID 305506)

**Product data:** 

**Product Type:** siRNA Oligo Duplexes

**HPLC** purified **Purity:** 

**Quality Control:** Tested by ESI-MS

Available with shipment **Sequences:** 

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).

Single siRNA duplex (10nmol) can be ordered. Note:

RefSeq: NM 001037352

**UniProt ID:** Q3KRD8

Synonyms: eIF-6; Itgb4bp

Components: Eif6 (Rat) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 305506)

Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol

Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml

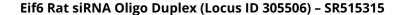
Binds to the 60S ribosomal subunit and prevents its association with the 40S ribosomal **Summary:** 

> subunit to form the 80S initiation complex in the cytoplasm. Behaves as a stimulatory translation initiation factor downstream insulin/growth factors. Is also involved in ribosome biogenesis. Associates with pre-60S subunits in the nucleus and is involved in its nuclear export. Cytoplasmic release of TIF6 from 60S subunits and nuclear relocalization is promoted by a RACK1 (RACK1)-dependent protein kinase C activity. In tissues responsive to insulin, controls fatty acid synthesis and glycolysis by exerting translational control of adipogenic transcription factors such as CEBPB, CEBPD and ATF4 that have G/C rich or uORF in their 5'UTR. Required for ROS-dependent megakaryocyte maturation and platelets formation, controls the expression of mitochondrial respiratory chain genes involved in reactive oxygen species (ROS) synthesis. Involved in miRNA-mediated gene silencing by the RNA-induced silencing complex (RISC). Required for both miRNA-mediated translational repression and miRNA-mediated cleavage of complementary mRNAs by RISC. Modulates cell cycle

progression and global translation of pre-B cells, its activation seems to be rate-limiting in

tumorigenesis and tumor growth.[UniProtKB/Swiss-Prot Function]







## 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).