

# Product datasheet for SR313692

# KLHL22 Human siRNA Oligo Duplex (Locus ID 84861)

## **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 032775, NR 033825 **UniProt ID:** Q53GT1 Synonyms: KELCHL **Components:** KLHL22 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 84861) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNAse free siRNA Duplex Resuspension Buffer - 2 ml Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex required for Summary: chromosome alignment and localization of PLK1 at kinetochores. The BCR(KLHL22) ubiquitin ligase complex mediates monoubiquitination of PLK1, leading to PLK1 dissociation from phosphoreceptor proteins and subsequent removal from kinetochores, allowing silencing of the spindle assembly checkpoint (SAC) and chromosome segregation. Monoubiquitination of PLK1 does not lead to PLK1 degradation (PubMed:19995937, PubMed:23455478). The BCR(KLHL22) ubiquitin ligase complex is also responsible for the amino acid-stimulated 'Lys-48' polyubiquitination and proteasomal degradation of DEPDC5. Through the degradation of DEPDC5, releases the GATOR1 complex-mediated inhibition of the TORC1 pathway. It is therefore an amino acid-dependent activator within the amino acid-sensing branch of the TORC1 pathway, indirectly regulating different cellular processes including cell growth and autophagy (PubMed:29769719).[UniProtKB/Swiss-Prot Function]



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### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# **CRICENE**KLHL22 Human siRNA Oligo Duplex (Locus ID 84861) - SR313692**Performance**<br/>Guaranteed:OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will<br/>provide at least 70% or more knockdown of the target mRNA when used at 10 nM<br/>concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control<br/>duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT<br/>positive control (cat# SR30003) provides 90% knockdown efficiency.For non-conforming siRNA, requests for replacement product must be made within ninety<br/>(90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with<br/>newly designed duplexes, please contact Technical Services at techsupport@origene.com.<br/>Please provide your data indicating the transfection efficiency and measurement of gene<br/>expression knockdown compared to the scrambled siRNA control (quantitative RT-PCR data<br/>required).

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