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Product datasheet for TR513721

Klhl18 Mouse shRNA Plasmid (Locus ID 270201)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Klhl18 Mouse shRNA Plasmid (Locus ID 270201)
Locus ID:	270201
Synonyms:	A930041K15; AW545966
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Klhl18 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 270201). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC025563, NM_177771, NM_001360306, NM_177771.1, NM_177771.2, NM_177771.3, NM_177771.4, NM_177771.5, BC034111, BC037604, BC065167
UniProt ID:	E9Q4F2
Summary:	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for mitotic progression and cytokinesis (By similarity). The BCR(KLHL18) E3 ubiquitin ligase complex mediates the ubiquitination of AURKA leading to its activation at the centrosome which is required for initiating mitotic entry (By similarity). Regulates light- and dark-dependent alpha-transducin localization changes in rod photoreceptors through UNC119 ubiquitination and degradation (PubMed:31696965). Preferentially ubiquitinates the unphosphorylated form of UNC119 over the phosphorylated form (PubMed:31696965). In the presence of UNC119, under dark-adapted conditions alpha-transducin mislocalizes from the outer segment to the inner part of rod photoreceptors which leads to decreased photoreceptor damage caused by light (PubMed:31696965).[UniProtKB/Swiss-Prot Function]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

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Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, 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 shRNA control (Western Blot data preferred).