

Product datasheet for **TL513657**

Klk1 Mouse shRNA Plasmid (Locus ID 16612)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Klk1 Mouse shRNA Plasmid (Locus ID 16612)
Locus ID:	16612
Synonyms:	0610007D04Rik; Kal; KAL-B; Klk; Klk1b6; Klk6; mGk-6
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Klk1 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 16612). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	BC010754 , BC027736 , BC053697 , NM_010639 , NM_010639.1 , NM_010639.2 , NM_010639.3 , NM_010639.4 , NM_010639.5 , NM_010639.6 , NM_010639.7 , NM_010639.8 , BC037125
UniProt ID:	P15947
Summary:	This gene encodes a member of the kallikrein subfamily of serine proteases that are involved in diverse physiological functions such as skin desquamation, tooth enamel formation, seminal liquefaction, synaptic neural plasticity and brain function. The encoded preproprotein undergoes proteolytic cleavage of the activation peptide to generate the functional enzyme. Mice lacking the encoded protein are unable to generate significant levels of kinins in most tissues, develop cardiovascular abnormalities and exhibit hypercalciuria of renal origin. This gene is located in a cluster of several related kallikrein genes on chromosome 7. Alternative splicing results in multiple transcript variants encoding different isoforms, some of which may undergo similar processing. [provided by RefSeq, Feb 2016]
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).