

## Product datasheet for **TL303247**

### **MKL1 Human shRNA Plasmid Kit (Locus ID 57591)**

#### **Product data:**

<b>Product Type:</b>	shRNA Plasmids
<b>Product Name:</b>	MKL1 Human shRNA Plasmid Kit (Locus ID 57591)
<b>Locus ID:</b>	57591
<b>Synonyms:</b>	BSAC; MAL; MKL; MKL1; MRTF-A
<b>Vector:</b>	pGFP-C-shLenti (TR30023)
<b>E. coli Selection:</b>	Chloramphenicol (34 ug/ml)
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Format:</b>	Lentiviral plasmids
<b>Components:</b>	MKL1 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 57591). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
<b>RefSeq:</b>	<a href="#">NM_001282660</a> , <a href="#">NM_001282661</a> , <a href="#">NM_001282662</a> , <a href="#">NM_001318139</a> , <a href="#">NM_020831</a> , <a href="#">NM_020831.1</a> , <a href="#">NM_020831.3</a> , <a href="#">NM_020831.4</a> , <a href="#">NM_001282662.1</a> , <a href="#">NM_001282661.1</a> , <a href="#">NM_001282660.1</a> , <a href="#">BC021586</a> , <a href="#">BC064620</a> , <a href="#">BC114364</a> , <a href="#">BC115039</a> , <a href="#">BC139730</a> , <a href="#">BC141653</a> , <a href="#">BC141655</a> , <a href="#">NM_001282660.2</a>
<b>UniProt ID:</b>	<a href="#">Q969V6</a>
<b>Summary:</b>	The protein encoded by this gene interacts with the transcription factor myocardin, a key regulator of smooth muscle cell differentiation. The encoded protein is predominantly nuclear and may help transduce signals from the cytoskeleton to the nucleus. This gene is involved in a specific translocation event that creates a fusion of this gene and the RNA-binding motif protein-15 gene. This translocation has been associated with acute megakaryocytic leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]
<b>shRNA Design:</b>	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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .

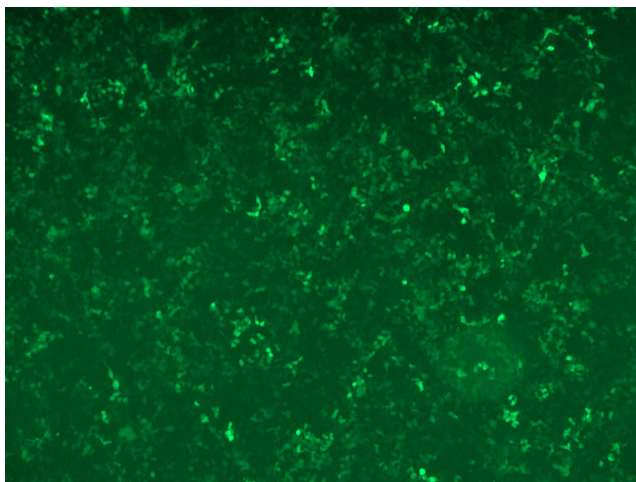


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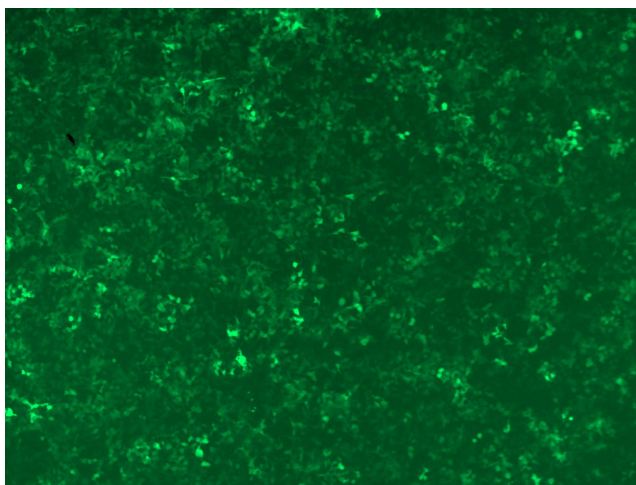
**Performance  
Guaranteed:**

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.

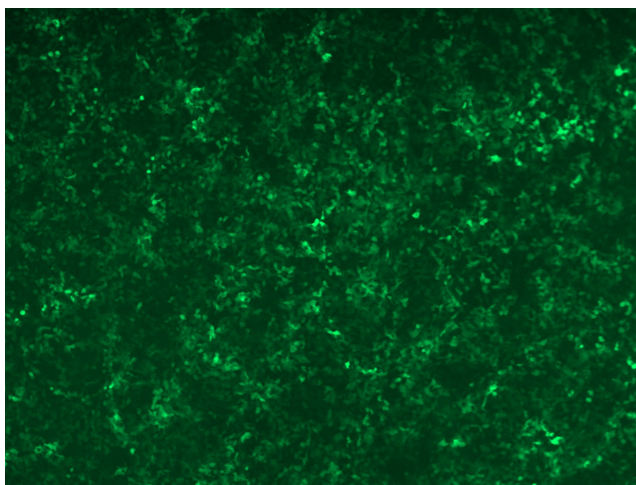
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

**Product images:**

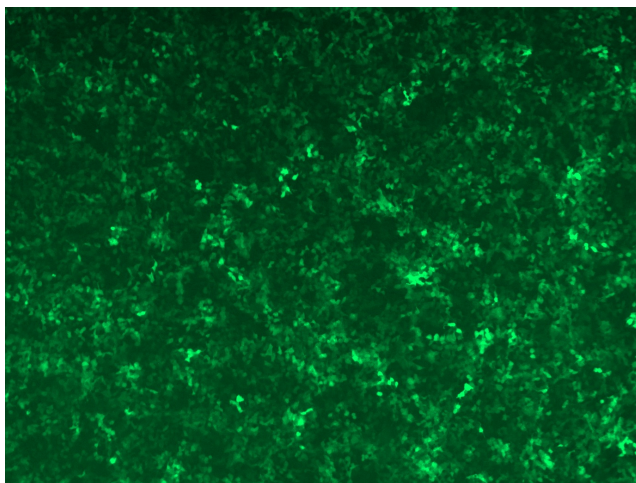
GFP signal was observed under microscope at 48 hours after transduction of TL303247A virus into HEK293 cells. TL303247A virus was prepared using lenti-shRNA TL303247A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL303247B virus into HEK293 cells. TL303247B virus was prepared using lenti-shRNA TL303247B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL303247C] virus into HEK293 cells. [TL303247C] virus was prepared using lenti-shRNA [TL303247C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL303247D] virus into HEK293 cells. [TL303247D] virus was prepared using lenti-shRNA [TL303247D] and [TR30037] packaging kit.