

## Product datasheet for **TL506506**

### **Kdm6b Mouse shRNA Plasmid (Locus ID 216850)**

#### **Product data:**

<b>Product Type:</b>	shRNA Plasmids
<b>Product Name:</b>	Kdm6b Mouse shRNA Plasmid (Locus ID 216850)
<b>Locus ID:</b>	216850
<b>Synonyms:</b>	1700064E03Rik; BC038313; Jmjd3; mKIAA0346
<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>	Kdm6b - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 216850). 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="#">BC075632</a> , <a href="#">NM_001017426</a> , <a href="#">NM_001017426.1</a> , <a href="#">BC029201</a> , <a href="#">BC038313</a> , <a href="#">NM_001017426.2</a>
<b>UniProt ID:</b>	<a href="#">Q5NCY0</a>
<b>Summary:</b>	Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation (PubMed:17825402). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression by acting as a link between T-box factors and the SMARCA4-containing SWI/SNF remodeling complex (PubMed:21095589). [UniProtKB/Swiss-Prot Function]
<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> .

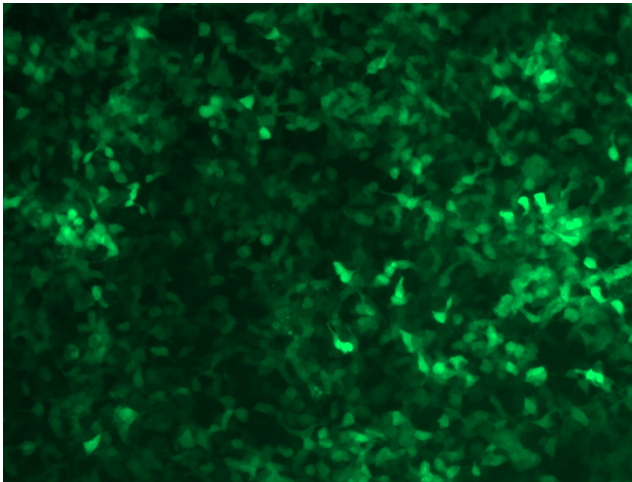


[View online »](#)

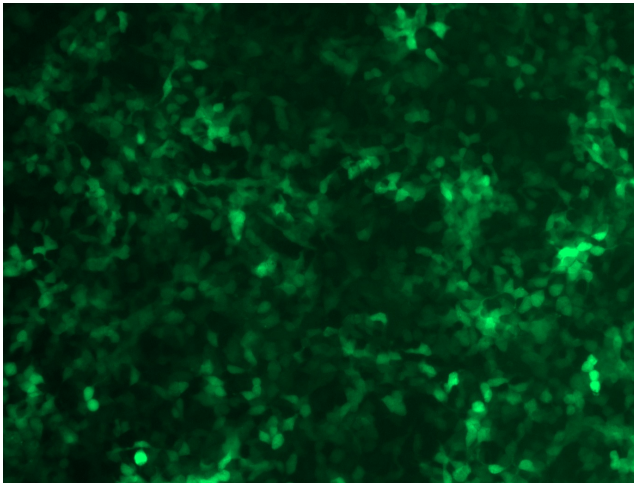
**Performance  
Guaranteed:**

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.

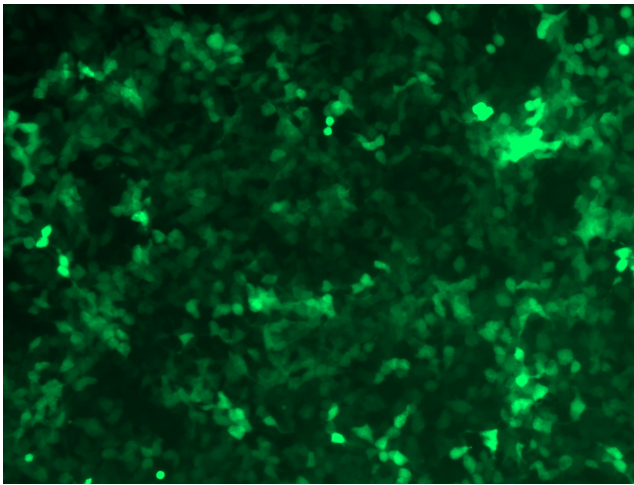
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). 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:**

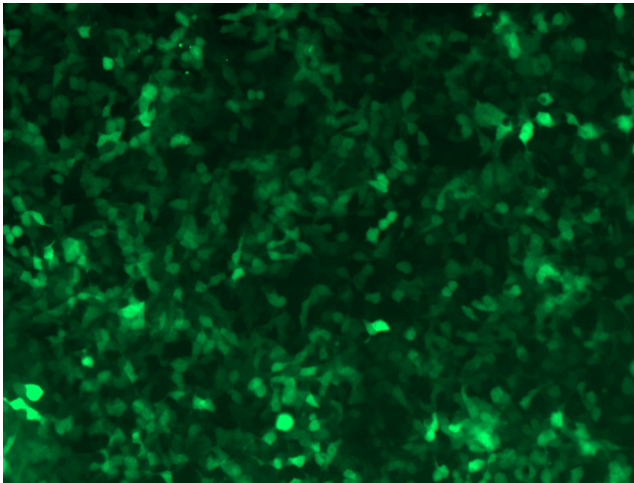
GFP signal was observed under microscope at 48 hours after transduction of TL506506A virus into HEK293 cells. TL506506A virus was prepared using lenti-shRNA TL506506A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL506506B virus into HEK293 cells. TL506506B virus was prepared using lenti-shRNA TL506506B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL506506C] virus into HEK293 cells. [TL506506C] virus was prepared using lenti-shRNA [TL506506C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL506506D] virus into HEK293 cells. [TL506506D] virus was prepared using lenti-shRNA [TL506506D] and [TR30037] packaging kit.