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Product datasheet for TG515471

E130012A19Rik Mouse shRNA Plasmid (Locus ID 103551)

Product data:

Product Type:	shRNA Plasmids
Product Name:	E130012A19Rik Mouse shRNA Plasmid (Locus ID 103551)
Locus ID:	103551
Synonyms:	AA409164; AI413509; AW539173; E13; E130012A19Rik; esPRC2p48
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Epop - Mouse, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 103551). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	BC055770, NM_175332, NM_175332.1, NM_175332.2, NM_175332.3, BC006054
UniProt ID:	Q7TNS8
Summary:	Scaffold protein that serves as a bridging partner between the PRC2/EED-EZH2 complex and the elongin BC complex: required to fine-tune the transcriptional status of Polycomb group (PcG) target genes in embryonic stem cells (ESCs) (PubMed:27863225, PubMed:27863226). Plays a key role in genomic regions that display both active and repressive chromatin properties in pluripotent stem cells by sustaining low level expression at PcG target genes: acts by recruiting the elongin BC complex, thereby restricting excessive activity of the PRC2/EED-EZH2 complex (PubMed:27863225, PubMed:27863226). Interaction with USP7 promotes deubiquitination of H2B at promoter sites (PubMed:27863226). Acts as a regulator of neuronal differentiation (PubMed:23180766).[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).