

Product datasheet for TL501287

Smad4 Mouse shRNA Plasmid (Locus ID 17128)

Product data:

OriGene Technologies, Inc.

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Product Type:	shRNA Plasmids
Product Name:	Smad4 Mouse shRNA Plasmid (Locus ID 17128)
Locus ID:	17128
Synonyms:	AW743858; D18Wsu70e; DPC4; Madh4
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Smad4 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 17128). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<u>BC046584</u> , <u>NM 008540, NM 008540.1, NM 008540.2, NM 001364967</u> , <u>NM 001364968</u> , <u>NM 008540.3</u>
UniProt ID:	<u>P97471</u>



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Positively regulates PDPK1 kinase activity by stimulating its dissociation from th protein YWHAQ which acts as a negative regulator (By similarity). Acts synergist SMAD1 and YY1 in bone morphogenetic protein (BMP)-mediated cardiac-specif expression (PubMed:15329343). Binds to SMAD binding elements (SBEs) (5'-GT within BMP response element (BMPRE) of cardiac activating regions (PubMed:1 muscle physiology, plays a central role in the balance between atrophy and hyp When recruited by MSTN, promotes atrophy response via phosphorylated SMA decrease causes SMAD4 release and subsequent recruitment by the BMP path promote hypertrophy via phosphorylated SMAD1/5/8.[UniProtKB/Swiss-Prot Fu	ically with ic gene CT/AGAC-3') 5329343). In pertrophy. D2/4. MSTN way to
shRNA Design: These shRNA constructs were designed against multiple splice variants at this s	

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.PerformanceOriGene guarantees that the sequences in the shRNA expression cassettes are verified to

Guaranteed: Guaranteed: 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).

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