

Product datasheet for TL506095

Usp33 Mouse shRNA Plasmid (Locus ID 170822)

Product data:

OriGene Technologies, Inc.

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Product Type:	shRNA Plasmids
Product Name:	Usp33 Mouse shRNA Plasmid (Locus ID 170822)
Locus ID:	170822
Synonyms:	9830169D19Rik; AA409780; Vdu1
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Usp33 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 170822). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM 001076676, NM 001252486, NM 133247, NM 001355666, NM 133247.1, NM 133247.2, NM 133247.3, NM 001076676.1, NM 001076676.2, NM 001252486.1, BC005506, BC031366, BC036980, BC049870, BC067399, BC089315, BC146302, BC148745
UniProt ID:	<u>Q8R5K2</u>



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GRIGENE Usp33 Mouse shRNA Plasmid (Locus ID 170822) – TL506095

Summary:	Deubiquitinating enzyme involved in various processes such as centrosome duplication,
	cellular migration and beta-2 adrenergic receptor/ADRB2 recycling. Involved in regulation of
	centrosome duplication by mediating deubiquitination of CCP110 in S and G2/M phase,
	leading to stabilize CCP110 during the period which centrioles duplicate and elongate.
	Involved in cell migration via its interaction with intracellular domain of ROBO1, leading to
	regulate the Slit signaling. Plays a role in commissural axon guidance cross the ventral
	midline of the neural tube in a Slit-dependent manner, possibly by mediating the
	deubiquitination of ROBO1. Acts as a regulator of G-protein coupled receptor (GPCR)
	signaling by mediating the deubiquitination of beta-arrestins (ARRB1 and ARRB2) and beta-2
	adrenergic receptor (ADRB2). Plays a central role in ADRB2 recycling and resensitization after
	prolonged agonist stimulation by constitutively binding ADRB2, mediating deubiquitination of
	ADRB2 and inhibiting lysosomal trafficking of ADRB2. Upon dissociation, it is probably
	transferred to the translocated beta-arrestins, leading to beta-arrestins deubiquitination and
	disengagement from ADRB2. This suggests the existence of a dynamic exchange between the
	ADRB2 and beta-arrestins. Deubiquitinates DIO2, thereby regulating thyroid hormone
	regulation. Mediates deubiquitination of both 'Lys-48'- and 'Lys-63'-linked polyubiquitin
	chains.[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 <u>techsupport@origene.com</u> .
	If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u> .

PerformanceOriGene guarantees that the sequences in the shRNA expression cassettes are verified toGuaranteed: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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