

Product datasheet for TG517119

OriGene Technologies, Inc.

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Rictor Mouse shRNA Plasmid (Locus ID 78757)

Product data:

Product Type: shRNA Plasmids

Product Name: Rictor Mouse shRNA Plasmid (Locus ID 78757)

Locus ID: 78757

Synonyms: 4921505C17Rik; 6030405M08Rik; AVO3; AW492497; D530039E11Rik

Vector: pGFP-V-RS (TR30007)

E. coli Selection: Kanamycin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: Rictor - Mouse, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 78757).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.

RefSeq: <u>BC120903</u>, <u>BC120904</u>, <u>NM 030168</u>, <u>NM 030168.1</u>, <u>NM 030168.2</u>, <u>NM 030168.3</u>, <u>BC022906</u>,

BC058643

UniProt ID: Q6Q106

Summary: Subunit of mTORC2, which regulates cell growth and survival in response to hormonal

signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2

plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the

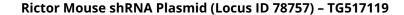
phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. Plays an essential role in embryonic

growth and development.[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>.







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).