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Product datasheet for TL503929

Ttll4 Mouse shRNA Plasmid (Locus ID 67534)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Ttll4 Mouse shRNA Plasmid (Locus ID 67534)
Locus ID:	67534
Synonyms:	4632407P03Rik; AI451681; mKIAA0173
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Ttll4 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 67534). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	BC085151, NM_001014974, NM_001014974.1, BC044790, BC049820, NM_001014974.2
UniProt ID:	Q80UG8
Summary:	Glutamylase which preferentially modifies beta-tubulin and non-tubulin proteins, such as NAP1L1, NAP1L4 and CGAS (PubMed:17499049, PubMed:21074048, PubMed:20530212). Involved in the side-chain initiation step of the polyglutamylation reaction rather than in the elongation step (PubMed:17499049, PubMed:21074048). Involved in formation of short side-chains (PubMed:20530212). Mediates initiation of polyglutamylation of nucleosome assembly proteins NAP1L1 and NAP1L4 (PubMed:17499049). Also acts as a monoglutamylase: generates monoglutamylation of CGAS, leading to impair the nucleotidyltransferase activity of CGAS (PubMed:26829768).[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).