

Product datasheet for TL516538

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Pias1 Mouse shRNA Plasmid (Locus ID 56469)

Product data:

Product Type: shRNA Plasmids

Product Name: Pias1 Mouse shRNA Plasmid (Locus ID 56469)

Locus ID:

2900068C24Rik; Ddxbp1; GBP Synonyms:

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Lentiviral plasmids

Pias1 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 56469). Components:

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

BC051417, NM 019663, NM 019663.1, NM 019663.2, NM 019663.3 RefSeq:

UniProt ID: 088907

Functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, stabilizing the interaction **Summary:**

> between UBE2I and the substrate, and as a SUMO-tethering factor. Plays a crucial role as a transcriptional coregulation in various cellular pathways, including the STAT pathway, the p53

pathway and the steroid hormone signaling pathway. In vitro, binds A/T-rich DNA (By similarity). The effects of this transcriptional coregulation, transactivation or silencing, may vary depending upon the biological context. Sumoylates PML (at'Lys-65' and 'Lys-160') and PML-RAR and promotes their ubiquitin-mediated degradation. PIAS1-mediated sumoylation

of PML promotes its interaction with CSNK2A1/CK2 which in turn promotes PML

phosphorylation and degradation. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation. Plays a dynamic role in adipogenesis by promoting the SUMOylation and degradation of CEBPB (PubMed:24061474).[UniProtKB/Swiss-Prot Function]

These shRNA constructs were designed against multiple splice variants at this gene locus. To shRNA Design:

> 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.





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).