

Product datasheet for TR300606

OriGene Technologies, Inc.

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USP51 Human shRNA Plasmid Kit (Locus ID 158880)

Product data:

Product Type: shRNA Plasmids

Product Name: USP51 Human shRNA Plasmid Kit (Locus ID 158880)

Locus ID: 158880

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format: Retroviral plasmids

Components: USP51 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

158880). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: NM 201286, NM 201286.1, NM 201286.2, NM 201286.3, BC035907, BC131541, BC172281

UniProt ID: Q70EK9

Summary: Specifically deubiquitinates 'Lys-14' (H2AK13Ub) and 'Lys-16' (H2AK15Ub) of histone H2A

regulating the DNA damage response at double-strand breaks (DSBs) (PubMed:27083998).

USP51 is recruited to chromatin after DNA damage and regulates the dynamic

assembly/disassembly of TP53BP1 and BRCA1. Exhibits also activity for 'Lys-27' or 'Lys-63'-

linked di-ubiquitin (PubMed:27083998).[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).