

## Product datasheet for **TR316459**

### Ancient ubiquitous protein 1 (AUP1) Human shRNA Plasmid Kit (Locus ID 550)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Ancient ubiquitous protein 1 (AUP1) Human shRNA Plasmid Kit (Locus ID 550)
Locus ID:	550
Synonyms:	ancient ubiquitous protein 1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	AUP1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 550). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_012103</a> , <a href="#">NM_181575</a> , <a href="#">NM_181576</a> , <a href="#">NR_126510</a> , <a href="#">NR_126511</a> , <a href="#">NM_181575.1</a> , <a href="#">NM_181575.2</a> , <a href="#">NM_181575.3</a> , <a href="#">NM_181575.4</a> , <a href="#">BC001658</a> , <a href="#">BC033646</a> , <a href="#">NM_181575.5</a>
UniProt ID:	<a href="#">Q9Y679</a>
Summary:	The protein encoded this gene is involved in several pathways including quality control of misfolded proteins in the endoplasmic reticulum and lipid droplet accumulation. Lipid droplets are organelles in the cytoplasm that store neutral lipids such as cholesterol esters and triglycerides to prevent the overabundance of free cholesterol and fatty acids in cells, but also to act as storage for other metabolic processes, such as membrane biogenesis. Reduced expression of this gene results in reduced lipid droplet clustering, a function that is dependent on ubiquitination of the protein. This protein contains multiple domains including a hydrophobic N-terminal domain, an acetyltransferase domain, a ubiquitin-binding CUE domain, and a UBE2B2-binding domain (G2BR). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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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](mailto: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).