

## Product datasheet for **TR518094**

### Ubr5 Mouse shRNA Plasmid (Locus ID 70790)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Ubr5 Mouse shRNA Plasmid (Locus ID 70790)
Locus ID:	70790
Synonyms:	Edd; Edd1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Ubr5 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 70790). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001081359</a> , <a href="#">NM_001112721</a> , <a href="#">NM_001081359.1</a> , <a href="#">NM_001081359.2</a> , <a href="#">NM_001081359.3</a> , <a href="#">NM_001112721.1</a> , <a href="#">NM_001112721.2</a> , <a href="#">BC034075</a> , <a href="#">BC037687</a> , <a href="#">BC047348</a> , <a href="#">BC049162</a> , <a href="#">BC049224</a> , <a href="#">BC051104</a> , <a href="#">BC057458</a> , <a href="#">BC057923</a> , <a href="#">BC064751</a> , <a href="#">NM_027553</a>
UniProt ID:	<a href="#">Q80TP3</a>
Summary:	E3 ubiquitin-protein ligase which is a component of the N-end rule pathway. Ubiquitinates acetylated PCK1. Also acts as a regulator of DNA damage response by acting as a suppressor of RNF168, an E3 ubiquitin-protein ligase that promotes accumulation of 'Lys-63'-linked histone H2A and H2AX at DNA damage sites, thereby acting as a guard against excessive spreading of ubiquitinated chromatin at damaged chromosomes (By similarity). Recognizes and binds to proteins bearing specific N-terminal residues that are destabilizing according to the N-end rule, leading to their ubiquitination and subsequent degradation. Involved in maturation and/or transcriptional regulation of mRNA by activating CDK9 by polyubiquitination. May play a role in control of cell cycle progression. May have tumor suppressor function. Plays an essential role in extraembryonic development. Regulates DNA topoisomerase II binding protein (TopBP1) for the DNA damage response.[UniProtKB/Swiss-Prot Function]



[View online »](#)

**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](mailto: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](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).