

Product datasheet for **TR302370**

POLR3E Human shRNA Plasmid Kit (Locus ID 55718)

Product data:

Product Type:	shRNA Plasmids
Product Name:	POLR3E Human shRNA Plasmid Kit (Locus ID 55718)
Locus ID:	55718
Synonyms:	C37; RPC5; SIN
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	POLR3E - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 55718). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<u>NM_001258033</u> , <u>NM_001258034</u> , <u>NM_001258035</u> , <u>NM_001258036</u> , <u>NM_018119</u> , <u>NR_047581</u> , <u>NM_018119.1</u> , <u>NM_018119.2</u> , <u>NM_018119.3</u> , <u>NM_001258036.1</u> , <u>NM_001258034.1</u> , <u>NM_001258035.1</u> , <u>NM_001258033.1</u> , <u>BC000285</u> , <u>NM_001258036.2</u> , <u>NM_001258033.2</u> , <u>NM_001258034.2</u> , <u>NM_018119.4</u>
UniProt ID:	<u>Q9NVU0</u>
Summary:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific peripheric component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Essential for efficient transcription from both the type 2 VAI and type 3 U6 RNA polymerase III promoters. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF- Kappa-B through the RIG-I pathway (By similarity).[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 <u>custom shRNA service</u> .


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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).