

Product datasheet for **TR314471**

BLM Human shRNA Plasmid Kit (Locus ID 641)

Product data:

Product Type:	shRNA Plasmids
Product Name:	BLM Human shRNA Plasmid Kit (Locus ID 641)
Locus ID:	641
Synonyms:	BS; MGRISCE1; RECQ2; RECQL2; RECQL3
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	BLM - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 641). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_000057 , NM_001287246 , NM_001287247 , NM_001287248 , NM_000057.1 , NM_000057.2 , NM_000057.3 , NM_001287248.1 , NM_001287247.1 , NM_001287246.1 , BC034480 , BC062697 , BC093622 , BC101567 , BC107423 , BC115028 , BC115029 , BC115030 , BC115031 , BC115032 , BC143280 , BC143288 , NM_001287248.2 , NM_001287246.2 , NM_000057.4 , NM_001287247.2
UniProt ID:	P54132
Summary:	The Bloom syndrome is an autosomal recessive disorder characterized by growth deficiency, microcephaly and immunodeficiency among others. It is caused by homozygous or compound heterozygous mutation in the gene encoding DNA helicase RecQ protein on chromosome 15q26. This Bloom-associated helicase unwinds a variety of DNA substrates including Holliday junction, and is involved in several pathways contributing to the maintenance of genome stability. Identification of pathogenic Bloom variants is required for heterozygote testing in at-risk families. [provided by RefSeq, May 2020]
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 custom shRNA service .



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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).