

## Product datasheet for **TR312506**

### HBS1L Human shRNA Plasmid Kit (Locus ID 10767)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	HBS1L Human shRNA Plasmid Kit (Locus ID 10767)
Locus ID:	10767
Synonyms:	EF-1a; eRF3c; ERFS; HBS1; HSPC276
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	HBS1L - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 10767). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001145158</a> , <a href="#">NM_001145207</a> , <a href="#">NM_006620</a> , <a href="#">NM_006620.1</a> , <a href="#">NM_006620.2</a> , <a href="#">NM_006620.3</a> , <a href="#">NM_001145158.1</a> , <a href="#">NM_001145207.1</a> , <a href="#">BC040849</a> , <a href="#">BC040849.1</a> , <a href="#">BC001465</a> , <a href="#">NM_001363686</a> , <a href="#">NM_001145158.2</a> , <a href="#">NM_006620.4</a> , <a href="#">NM_001145207.2</a>
UniProt ID:	<a href="#">Q9Y450</a>
Summary:	This gene encodes a member of the GTP-binding elongation factor family. It is expressed in multiple tissues with the highest expression in heart and skeletal muscle. The intergenic region of this gene and the MYB gene has been identified to be a quantitative trait locus (QTL) controlling fetal hemoglobin level, and this region influences erythrocyte, platelet, and monocyte counts as well as erythrocyte volume and hemoglobin content. DNA polymorphisms at this region associate with fetal hemoglobin levels and pain crises in sickle cell disease. A single nucleotide polymorphism in exon 1 of this gene is significantly associated with severity in beta-thalassemia/Hemoglobin E. Multiple alternatively spliced transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, May 2009]
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).