

Product datasheet for **TG306571**

HIF1 beta (ARNT) Human shRNA Plasmid Kit (Locus ID 405)

Product data:

Product Type:	shRNA Plasmids
Product Name:	HIF1 beta (ARNT) Human shRNA Plasmid Kit (Locus ID 405)
Locus ID:	405
Synonyms:	bHLHe2; HIF-1-beta; HIF-1beta; HIF1-beta; HIF1B; HIF1BETA; TANGO
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	ARNT - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 405). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	NM_001197325 , NM_001286035 , NM_001286036 , NM_001668 , NM_178426 , NM_178427 , NM_001350224 , NM_001350225 , NM_001350226 , NM_001668.1 , NM_001668.2 , NM_001668.3 , NM_178427.1 , NM_178427.2 , NM_178426.1 , NM_001197325.1 , NM_001286035.1 , NM_001286036.1 , BC028362 , BC041121 , BC060838 , NM_001286036.2 , NM_001286035.2 , NM_001668.4 , NM_178427.3 , NM_001197325.2
UniProt ID:	P27540
Summary:	This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC domain. The encoded protein binds to ligand-bound aryl hydrocarbon receptor and aids in the movement of this complex to the nucleus, where it promotes the expression of genes involved in xenobiotic metabolism. This protein is also a co-factor for transcriptional regulation by hypoxia-inducible factor 1. Chromosomal translocation of this locus with the ETV6 (ets variant 6) gene on chromosome 12 have been described in leukemias. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2013]
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).