

## Product datasheet for **TL308329**

### **YB1 (YBX1) Human shRNA Plasmid Kit (Locus ID 4904)**

#### **Product data:**

<b>Product Type:</b>	shRNA Plasmids
<b>Product Name:</b>	YB1 (YBX1) Human shRNA Plasmid Kit (Locus ID 4904)
<b>Locus ID:</b>	4904
<b>Synonyms:</b>	BP-8; CBF-A; CSDA2; CSDB; DBPB; EFI-A; MDR-NF1; NSEP-1; NSEP1; YB-1; YB1
<b>Vector:</b>	pGFP-C-shLenti (TR30023)
<b>E. coli Selection:</b>	Chloramphenicol (34 ug/ml)
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Format:</b>	Lentiviral plasmids
<b>Components:</b>	YBX1 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 4904). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
<b>RefSeq:</b>	<a href="#">NM_004559</a> , <a href="#">NR_132737</a> , <a href="#">NM_004559.1</a> , <a href="#">NM_004559.2</a> , <a href="#">NM_004559.3</a> , <a href="#">NM_004559.4</a> , <a href="#">BC070084</a> , <a href="#">BC070084.1</a> , <a href="#">BC000064</a> , <a href="#">BC002411</a> , <a href="#">BC010430</a> , <a href="#">BC013838</a> , <a href="#">BC015208</a> , <a href="#">BC018393</a> , <a href="#">BC020164</a> , <a href="#">BC038384</a> , <a href="#">BC065571</a> , <a href="#">BC071708</a> , <a href="#">BC072014</a> , <a href="#">BC090038</a> , <a href="#">BC098435</a> , <a href="#">BC106045</a> , <a href="#">NM_004559.5</a>
<b>UniProt ID:</b>	<a href="#">P67809</a>
<b>Summary:</b>	This gene encodes a highly conserved cold shock domain protein that has broad nucleic acid binding properties. The encoded protein functions as both a DNA and RNA binding protein and has been implicated in numerous cellular processes including regulation of transcription and translation, pre-mRNA splicing, DNA reparation and mRNA packaging. This protein is also a component of messenger ribonucleoprotein (mRNP) complexes and may have a role in microRNA processing. This protein can be secreted through non-classical pathways and functions as an extracellular mitogen. Aberrant expression of the gene is associated with cancer proliferation in numerous tissues. This gene may be a prognostic marker for poor outcome and drug resistance in certain cancers. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on multiple chromosomes. [provided by RefSeq, Sep 2015]



[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).