

## Product datasheet for **TF306440**

### BAX Human shRNA Plasmid Kit (Locus ID 581)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	BAX Human shRNA Plasmid Kit (Locus ID 581)
Locus ID:	581
Synonyms:	BCL2L4
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	BAX - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 581). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	<a href="#">NM_001291428</a> , <a href="#">NM_001291429</a> , <a href="#">NM_001291430</a> , <a href="#">NM_001291431</a> , <a href="#">NM_004324</a> , <a href="#">NM_138761</a> , <a href="#">NM_138762</a> , <a href="#">NM_138763</a> , <a href="#">NM_138764</a> , <a href="#">NM_138765</a> , <a href="#">NR_027882</a> , <a href="#">NM_138761.1</a> , <a href="#">NM_138761.3</a> , <a href="#">NM_138764.1</a> , <a href="#">NM_138764.2</a> , <a href="#">NM_138764.3</a> , <a href="#">NM_138764.4</a> , <a href="#">NM_004324.1</a> , <a href="#">NM_004324.2</a> , <a href="#">NM_004324.3</a> , <a href="#">NM_138763.1</a> , <a href="#">NM_138763.2</a> , <a href="#">NM_138763.3</a> , <a href="#">NM_001291431.1</a> , <a href="#">NM_001291430.1</a> , <a href="#">NM_001291429.1</a> , <a href="#">NM_001291428.1</a> , <a href="#">NM_138765.2</a> , <a href="#">BC014175</a> , <a href="#">BC014175.2</a> , <a href="#">BM673184</a> , <a href="#">BM706954</a> , <a href="#">NM_001291429.2</a> , <a href="#">NM_138761.4</a> , <a href="#">NM_004324.4</a> , <a href="#">NM_001291431.2</a> , <a href="#">NM_138764.5</a> , <a href="#">NM_138763.4</a> , <a href="#">NM_001291428.2</a>
UniProt ID:	<a href="#">Q07812</a>
Summary:	The protein encoded by this gene belongs to the BCL2 protein family. BCL2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein forms a heterodimer with BCL2, and functions as an apoptotic activator. The association and the ratio of BAX to BCL2 also determines survival or death of a cell following an apoptotic stimulus. This protein is reported to interact with, and increase the opening of, the mitochondrial voltage-dependent anion channel (VDAC), which leads to the loss in membrane potential and the release of cytochrome c. The expression of this gene is regulated by the tumor suppressor P53 and has been shown to be involved in P53-mediated apoptosis. Multiple alternatively spliced transcript variants, which encode different isoforms, have been reported for this gene. [provided by RefSeq, Dec 2019]



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- 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).