

Product datasheet for **TR320077**

Bcl x (BCL2L1) Human shRNA Plasmid Kit (Locus ID 598)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Bcl x (BCL2L1) Human shRNA Plasmid Kit (Locus ID 598)
Locus ID:	598
Synonyms:	Bcl-X; BCL-XL/S; BCL2L; BCLX; PPP1R52
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	BCL2L1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 598). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001191 , NM_001317919 , NM_001317920 , NM_001317921 , NM_001322239 , NM_001322240 , NM_001322242 , NM_138578 , NR_134257 , NM_138578.1 , NM_138578.2 , NM_001191.1 , NM_001191.2 , NM_001191.3 , BC019307 , BC019307.1 , BM554265 , NM_001191.4 , NM_138578.3
UniProt ID:	Q07817
Summary:	The protein encoded by this gene belongs to the BCL-2 protein family. BCL-2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. The proteins encoded by this gene are located at the outer mitochondrial membrane, and have been shown to regulate outer mitochondrial membrane channel (VDAC) opening. VDAC regulates mitochondrial membrane potential, and thus controls the production of reactive oxygen species and release of cytochrome C by mitochondria, both of which are the potent inducers of cell apoptosis. Alternative splicing results in multiple transcript variants encoding two different isoforms. The longer isoform acts as an apoptotic inhibitor and the shorter isoform acts as an apoptotic activator. [provided by RefSeq, Dec 2015]
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 .



[View online »](#)

**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).