

## Product datasheet for **TR303930**

### ILF3 Human shRNA Plasmid Kit (Locus ID 3609)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	ILF3 Human shRNA Plasmid Kit (Locus ID 3609)
Locus ID:	3609
Synonyms:	CBTF; DRBF; DRBP76; MMP4; MPHOSPH4; MPP4; MPP4110; NF-AT-90; NF90; NF90a; NF90b; NF90c; NF90ctv; NF110; NF110b; NFAR; NFAR-1; NFAR-2; NFAR2; NFAR90; NFAR110; TCP80; TCP110
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	ILF3 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 3609). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001137673</a> , <a href="#">NM_004516</a> , <a href="#">NM_012218</a> , <a href="#">NM_017620</a> , <a href="#">NM_153464</a> , <a href="#">NM_012218.1</a> , <a href="#">NM_012218.2</a> , <a href="#">NM_012218.3</a> , <a href="#">NM_004516.1</a> , <a href="#">NM_004516.2</a> , <a href="#">NM_004516.3</a> , <a href="#">NM_153464.1</a> , <a href="#">NM_153464.2</a> , <a href="#">NM_017620.2</a> , <a href="#">NM_001137673.1</a> , <a href="#">BC064836</a> , <a href="#">BC001770</a> , <a href="#">BC003086</a> , <a href="#">BC014221</a> , <a href="#">BC018633</a> , <a href="#">BC048314</a> , <a href="#">BM973331</a> , <a href="#">NM_153464.3</a> , <a href="#">NM_004516.4</a> , <a href="#">NM_012218.4</a>
UniProt ID:	<a href="#">Q12906</a>
Summary:	This gene encodes a double-stranded RNA (dsRNA) binding protein that complexes with other proteins, dsRNAs, small noncoding RNAs, and mRNAs to regulate gene expression and stabilize mRNAs. This protein (NF90, ILF3) forms a heterodimer with a 45 kDa transcription factor (NF45, ILF2) required for T-cell expression of interleukin 2. This complex has been shown to affect the redistribution of nuclear mRNA to the cytoplasm. Knockdown of NF45 or NF90 protein retards cell growth, possibly by inhibition of mRNA stabilization. In contrast, an isoform (NF110) of this gene that is predominantly restricted to the nucleus has only minor effects on cell growth when its levels are reduced. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Dec 2014]



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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).