

Product datasheet for **TL314615**

ATF2 Human shRNA Plasmid Kit (Locus ID 1386)

Product data:

Product Type:	shRNA Plasmids
Product Name:	ATF2 Human shRNA Plasmid Kit (Locus ID 1386)
Locus ID:	1386
Synonyms:	CRE-BP1; CREB-2; CREB2; HB16; TREB7
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	ATF2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1386). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001256090 , NM_001256091 , NM_001256092 , NM_001256093 , NM_001256094 , NM_001880 , NR_045768 , NR_045769 , NR_045770 , NR_045771 , NR_045772 , NR_045773 , NR_045774 , NM_001880.1 , NM_001880.2 , NM_001880.3 , NM_001256094.1 , NM_001256093.1 , NM_001256092.1 , NM_001256091.1 , NM_001256090.1 , BC026175 , BC107698 , BC130335 , BC130337 , NM_001880.4 , NM_001256090.2 , NM_001256093.2 , NM_001256092.2
UniProt ID:	P15336
Summary:	This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. It forms a homodimer or a heterodimer with c-Jun and stimulates CRE-dependent transcription. This protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro; thus it may represent a class of sequence-specific factors that activate transcription by direct effects on chromatin components. The encoded protein may also be involved in cell's DNA damage response independent of its role in transcriptional regulation. Several alternatively spliced transcript variants have been found for this gene [provided by RefSeq, Jan 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. 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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).