

Product datasheet for TR314616

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ATF1 Human shRNA Plasmid Kit (Locus ID 466)

Product data:

Product Type: shRNA Plasmids

Product Name: ATF1 Human shRNA Plasmid Kit (Locus ID 466)

Locus ID:

EWS-ATF1; FUS/ATF-1; TREB36 Synonyms:

Vector: pRS (TR20003)

E. coli Selection: Ampicillin Mammalian Cell

Selection:

Puromycin

Format: Retroviral plasmids

Components: ATF1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

466). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

NM 005171, NM 005171.1, NM 005171.2, NM 005171.3, NM 005171.4, BC029619, RefSeq:

BC029619.1, NM 005171.5

UniProt ID: P18846

Summary: This gene encodes an activating transcription factor, which belongs to the ATF subfamily and

> bZIP (basic-region leucine zipper) family. It influences cellular physiologic processes by regulating the expression of downstream target genes, which are related to growth, survival,

> and other cellular activities. This protein is phosphorylated at serine 63 in its kinase-inducible

domain by serine/threonine kinases, cAMP-dependent protein kinase A, calmodulindependent protein kinase I/II, mitogen- and stress-activated protein kinase and cyclindependent kinase 3 (cdk-3). Its phosphorylation enhances its transactivation and

transcriptional activities, and enhances cell transformation. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric

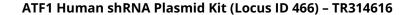
proteins in angiomatoid fibrous histiocytoma and clear cell sarcoma. This gene has a

pseudogene on chromosome 6. [provided by RefSeq, Aug 2010]

These shRNA constructs were designed against multiple splice variants at this gene locus. To shRNA Design:

> be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. 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).