

## **Product datasheet for RC202333L3**

#### OriGene Technologies, Inc.

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### ATF 4 (ATF4) (NM\_182810) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: ATF 4 (ATF4) (NM\_182810) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: ATF 4

**Synonyms:** CREB-2; CREB2; TAXREB67; TXREB

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC202333).

Sequence:

ction Sites: Sgfl-Mlul

Restriction Sites: Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_182810

ORF Size: 1053 bp



#### ATF 4 (ATF4) (NM\_182810) Human Tagged Lenti ORF Clone - RC202333L3

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

**RefSeq:** <u>NM 182810.1</u>

RefSeq Size:1439 bpRefSeq ORF:1056 bp

 UniProt ID:
 P18848

 Cytogenetics:
 22q13.1

Locus ID:

**Protein Families:** Transcription Factors

468

**Protein Pathways:** GnRH signaling pathway, Long-term potentiation, MAPK signaling pathway, Neurotrophin

signaling pathway, Prostate cancer

MW: 38.6 kDa

**Gene Summary:** This gene encodes a transcription factor that was originally identified as a widely expressed

LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located

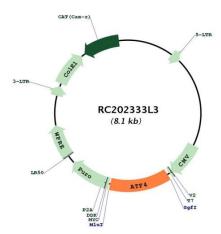
mammalian DNA binding protein that could bind a tax-responsive enhancer element in the

C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication.

[provided by RefSeq, Sep 2011]



# **Product images:**



Circular map for RC202333L3