

## Recombinant Human ATF2, His-tagged

**Cat. No.** ATF2-27043TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant full length human AFT2 with His tag; amino acids 1-505, approximately 55kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>      | 1-505 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>        | This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. The protein forms a homodimer or heterodimer with c-Jun and stimulates CRE-dependent transcription. The 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. Additional transcript variants have been identified but their biological validity has not been determined. |
| <b>Conjugation</b>        | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Tissue specificity</b> | Abundant expression seen in the brain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage buffer</b>     | Preservative: None<br>Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|                              |                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------|
|                              | chloride, 1mM DTT, 0.2mM EDTA, pH 8.0                                                              |
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.          |
| <b>Sequence Similarities</b> | Belongs to the bZIP family. ATF subfamily.Contains 1 bZIP domain.Contains 1 C2H2-type zinc finger. |
| <b>Full Length</b>           | Full L.                                                                                            |

## GENE INFORMATION

|                            |                                                                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">ATF2 activating transcription factor 2 [ Homo sapiens ]</a>                                                                                            |
| <b>Official Symbol</b>     | <a href="#">ATF2</a>                                                                                                                                               |
| <b>Synonyms</b>            | ATF2; activating transcription factor 2; cAMP responsive element binding protein 2 , CREB2; cyclic AMP-dependent transcription factor ATF-2; CRE BP1; HB16; TREB7; |
| <b>Gene ID</b>             | <a href="#">1386</a>                                                                                                                                               |
| <b>mRNA Refseq</b>         | <a href="#">NM_001880</a>                                                                                                                                          |
| <b>Protein Refseq</b>      | <a href="#">NP_001871</a>                                                                                                                                          |
| <b>MIM</b>                 | <a href="#">123811</a>                                                                                                                                             |
| <b>Uniprot ID</b>          | <a href="#">P15336</a>                                                                                                                                             |
| <b>Chromosome Location</b> | 2q32                                                                                                                                                               |

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**Pathway**

ATF-2 transcription factor network, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Activation of the AP-1 family of transcription factors, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem;

**Function**

DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; chromatin binding; metal ion binding; protein binding;

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