

# Active Recombinant Human Upstream Transcription Factor 1

Cat. No. USF1-1202H Lot. No. (See product label)

## SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Human Upstream Stimulatory Factor 1 (USF1) regulates the transcription of many genes involved in lipid and glucose homeostasis and co-localizes with familial combined hyperlipidemia (FCHL) and type 2-diabetes on chromosome 1q22-23. The USF1 protein can activate transcription through pyrimidine-rich initiator (Inr) elements and E-box motifs. It is a basic helix-loop-helix leucine zipper (b-HLH-ZIP) protein that shares a common DNA-binding specificity with the c-Myc oncoproteins.
<b>Form</b>	Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 20% glycerol, 100 mM KCl, 0.2 mM EDTA and 1 mM DTT.
<b>Purity</b>	>95% by SDS-PAGE.
<b>Activity</b>	5-50 ng are sufficient for DNA binding assays, 50-500 ng are required for in vitro transcription assays and 100 ng are required for protein-protein interaction assays.
<b>Usage</b>	For in vitro use only.
<b>Storage</b>	Quality guaranteed for 12 months store at -80°C. Avoid freeze / thaw cycles.

## GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

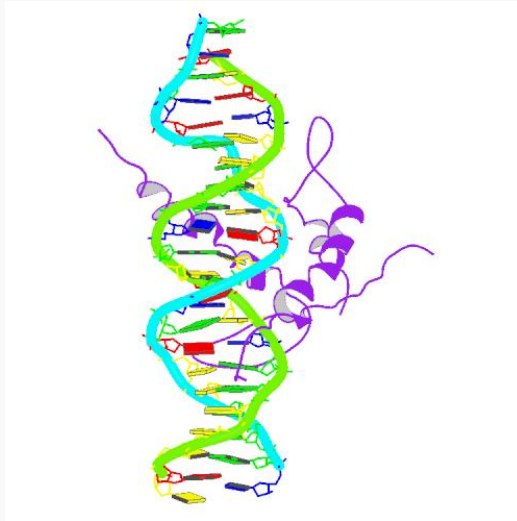
<b>Gene Name</b>	USF1 upstream transcription factor 1 [ Homo sapiens ]
<b>Synonyms</b>	USF1; upstream transcription factor 1; UEF; FCHL; MLTF; FCHL1; MLTFI; HYPLIP1; bHLHb11; OTTHUMP00000029691; OTTHUMP00000029693; USF; Major late transcription factor 1; upstream stimulatory factor 1
<b>Gene ID</b>	7391
<b>mRNA Refseq</b>	NM_007122
<b>Protein Refseq</b>	NP_009053
<b>MIM</b>	191523
<b>UniProt ID</b>	P22415
<b>Chromosome Location</b>	1q22-q23
<b>Function</b>	RNA polymerase II transcription factor activity, enhancer binding; RNA polymerase II transcription factor activity, enhancer binding; bHLH transcription factor binding; double-stranded DNA binding; histone deacetylase binding; protein heterodimerization activity; protein homodimerization activity; protein homodimerization activity; protein kinase binding; sequence-specific DNA binding; transcription activator activity

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PDB rendering based  
on 1an4.



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA