Active Recombinant Human Upstream Transcription Factor 1, GST-tagged

Cat. No. USF1-1203H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	E.coli
Description	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.
Form	Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 20% glycerol, 100 mM KCl, 0.2 mM EDTA and 1 mM DTT.
Purity	>95% by SDS-PAGE.
Activity	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.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months store at -80°C. Avoid freeze / thaw cycles.

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GENE INFORMATION

Gene Name	USF1 upstream transcription factor 1 [Homo sapiens]
Synonyms	USF1; upstream transcription factor 1; UEF; FCHL; MLTF; FCHL1; MLTFI; HYPLIP1; bHLHb11; OTTHUMP00000029691; OTTHUMP00000029693; USF; Major late transcription factor 1; upstream stimulatory factor 1
Gene ID	7391
mRNA Refseq	NM_007122
Protein Refseq	NP_009053
MIM	191523
UniProt ID	P22415
Chromosome Location	1q22-q23
Function	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

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