

## Recombinant Human GTF2A2, His-tagged

Cat. No. GTF2A2-29171TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human GTF2A2 with His tag. Amino acids 1-109, predicted MW 12 kDa,
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-109 a.a.
<b>Description</b>	<p>Accurate transcription initiation on TATA-containing class II genes involves the ordered assembly of RNA polymerase II (POLR2A; MIM 180660) and the general initiation factors TFIIA, TFIIB (MIM 189963), TFIID (MIM 313650), TFIIE (MIM 189962), TFIIF (MIM 189968), TFIIG/TFIIJ, and TFIIH (MIM 189972). The first step involves recognition of the TATA element by the TATA-binding subunit (TBP; MIM 600075) and may be regulated by TFIIA, a factor that interacts with both TBP and a TBP-associated factor (TAF; MIM 600475) in TFIID. TFIIA has 2 subunits (43 and 12 kD) in yeast and 3 subunits in higher eukaryotes. In HeLa extracts, it consists of a 35-kD alpha subunit and a 19-kD beta subunit encoded by the N- and C-terminal regions of GTF2A1 (MIM 600520), respectively, and a 12-kD gamma subunit encoded by GTF2A2 (DeJong et al.</p>
<b>Conjugation</b>	HIS
<b>Form</b>	Liquid

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<b>Storage buffer</b>	Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 100mM Potassium chloride, 1mM DTT, 0.1mM EDTA, pH 7.9
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	GTF2A2 general transcription factor IIA, 2, 12kDa [ Homo sapiens ]
<b>Official Symbol</b>	GTF2A2
<b>Synonyms</b>	GTF2A2; general transcription factor IIA, 2, 12kDa; general transcription factor IIA, 2 (12kD subunit); transcription initiation factor IIA subunit 2; HsT18745; TFIIA;
<b>Gene ID</b>	2958
<b>mRNA Refseq</b>	NM_004492
<b>Protein Refseq</b>	NP_004483
<b>MIM</b>	600519
<b>Uniprot ID</b>	P52657
<b>Chromosome Location</b>	15q21.3
<b>Pathway</b>	Basal transcription factors, organism-specific biosystem; Basal transcription factors, conserved biosystem; Eukaryotic Transcription Initiation, organism-specific

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biosystem; Formation and Maturation of mRNA Transcript, organism-specific biosystem; Gene Expression, organism-specific biosystem;

**Function**

TBP-class protein binding; protein binding; protein heterodimerization activity; protein homodimerization activity; transcription coactivator activity;

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