

Recombinant Human GTF2H2, His-tagged

Cat. No. GTF2H2-2673H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GTF2H2 with a His tag is expressed in <i>E. coli</i> . MW: 72±5 KDa.
Species	Human
Source	E.coli
Description	This gene is part of a 500 kb inverted duplication on chromosome 5q13. This duplicated region contains at least four genes and repetitive elements which make it prone to rearrangements and deletions. The repetitiveness and complexity of the sequence have also caused difficulty in determining the organization of this genomic region. This gene is within the telomeric copy of the duplication. Deletion of this gene sometimes accompanies deletion of the neighboring SMN1 gene in spinal muscular atrophy (SMA) patients but it is unclear if deletion of this gene contributes to the SMA phenotype. This gene encodes the 44 kDa subunit of RNA polymerase II transcription initiation factor IIH which is involved in basal transcription and nucleotide excision repair. Transcript variants for this gene have been described, but their full length nature has not been determined. A second copy of this gene within the centromeric copy of the duplication has been described in the literature. It is reported to be different by either two or four base pairs; however, no sequence data is currently available for the centromeric copy of the gene
Formulation	20% Glycerol solution at 0.20 mg/ml. Datasheet for SSL1/p44, recombinant protein.
Activity	It mediates the association of the XPD/ERCC2-CAK complex to core TFIIH to form

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holo-TFIIH.

Storage Store at -80°C. At least 1 year at -80°C.

GENE INFORMATION

Gene Name [GTF2H2 general transcription factor IIH, polypeptide 2, 44kDa \[Homo sapiens \]](#)

Synonyms GTF2H2; general transcription factor IIH, polypeptide 2, 44kDa; BTF2 p44; TFIIH basal transcription factor complex p44 subunit; basic transcription factor 2 44 kDa subunit; general transcription factor IIH polypeptide 2; general transcription factor IIH subunit 2; general transcription factor IIH, polypeptide 2, 44kD subunit; BTF2; TFIIH; BTF2P44; MGC102806; T-BTF2P44

Gene ID [2966](#)

mRNA Refseq [NM_001515](#)

Protein Refseq [NP_001506](#)

MIM [601748](#)

UniProt ID [Q13888](#)

Chromosome Location 5q12.2-q13.3

Pathway Basal transcription factors; Nucleotide excision repair

Function Function Evidence; contributes_to DNA-dependent ATPase activity; ATP binding; DNA binding; NOT DNA helicase activity; DNA-dependent ATPase activity; chromatin

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binding; protein C-terminus binding; protein N-terminus binding; transcription elongation regulator activity; translation factor activity, nucleic acid binding; zinc ion binding

PDB rendering based
on 1z60.

