Recombinant Human GTF2H2 Protein, GST-tagged

Cat. No. GTF2H2-4449H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GTF2H2 full-length ORF (AAH05345, 1 a.a. - 165 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq
Molecular Mass	43.89 kDa

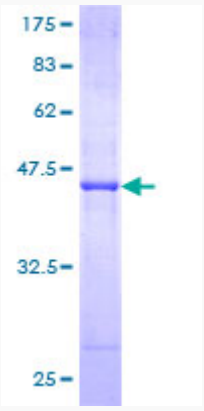
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MDEEPERTKRWEGGYERTWEILKEDESGSLKATIEDILFKAKRKRVFEHHGQVRLG MMRHLYVVVDGSRTMEDQDLKPNRLTCTLKLLEYFVEEYFDQNPISQIGIIVTKSKRA EKLTELSGNPRKHITSLKKAVDMTCHGEPSLYNSLSIAMQTLKLVLYIMYN
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	GTF2H2 general transcription factor IIH, polypeptide 2, 44kDa [Homo sapiens]
Official Symbol	GTF2H2
Synonyms	GTF2H2; general transcription factor IIH, polypeptide 2, 44kDa; general transcription factor IIH, polypeptide 2 (44kD subunit); general transcription factor IIH subunit 2; BTF2; BTF2P44; p44; T BTF2P44; TFIIH; BTF2 p44; basic transcription factor 2 44 kDa subunit; general transcription factor IIH polypeptide 2; TFIIH basal transcription factor complex p44 subunit; general transcription factor IIH, polypeptide 2, 44kD subunit; T-BTF2P44; MGC102806;
Gene ID	2966
mRNA Refseq	NM_001515

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Protein Refseq	NP_001506
MIM	601748
UniProt ID	Q13888
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.

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