Recombinant Rat General transcription factor IIH subunit 2 (Gtf2h2)

Product Code	CSB-YP010008RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	A0JN27
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	MDEEPERTKR WEGGYERTWE ILKEDESGSL KATIEDILFK AKRKRVFEHH GQVRLGMMRH LYVVVDGSRT MEDQDLKPNR LTCTLKLLEY FVEEYFDQNP ISQIGIIVTK SKRAEKLTEL SGNPRKHITS LKKAVDMTCH GEPSLYNSLS MAMQTLKHMP GHTSREVLII FSSLTTCDPS NIYDLIKTLK TAKIRVSVIG LSAEVRVCTV LARETGGTYH VILDETHYKE LLARHVSPPP ASSGSECSLI RMGFPQHTIA SLSDQDAKPS FSMAHLDNNS TEPGLTLGGY FCPQCRAKYC ELPVECKICG LTLVSAPHLA RSYHHLFPLD AFQEIPLEEY KGERFCYGCQ GELKDQHVYV CTVCRNVFCV DCDVFVHDSL HCCPGCVHKI PTQSGV
Source	Yeast
Target Names	Gtf2h2
Protein Names	Recommended name: General transcription factor IIH subunit 2 Alternative name(s): Basic transcription factor 2 44 kDa subunit Short name= BTF2 p44 General transcription factor IIH polypeptide 2 TFIIH basal transcription factor compl
Expression Region	1-396
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.