

## Product datasheet for **RN208291**

### Gtf2h2 (NM\_001077428) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gtf2h2 (NM\_001077428) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Gtf2h2  
**Synonyms:** BTF2 p44  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN208291 representing NM\_001077428  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGATGAAGAACCTGAAAGAATAAGCGGTGGGAAGGAGGCTATGAGAGAACCTGGGAAATTCCTAAAG  
AAGATGAAAGTGGATCACTTAAAGCTACAATAGAGGATATTCTCTCAAGGCAAAGAGGAAAAGAGTGTT  
TGAGCACCATGGACAAGTTCGACTTGGAAATGATGCGCCACCTGTACGTGGTGGTGGATGGGTCCAGAACA  
ATGGAAGATCAGGATTTAAAGCCCAACAGACTGACCTGTACTCTAAAGTTGTTGGAATATTTGTAGAAG  
AATATTTTGTATCAAAACCTATCAGTCAGATTGGCATAATTGTAACCTAAGAGTAAAAGAGCTGAAAAACT  
GACTGAACTCTCAGGAAACCCAAGGAAACACATAACATCTTTGAAGAAAGCTGTAGATATGACCTGCCAT  
GGAGAACCATCACTCTATAATTCCTTAAGCATGGCTATGCAAACCTAAAACACATGCCCGGACACACAA  
GCAGAGAAGTGCTCATCATCTTCAGCAGCCTCACGACCTGTGACCCCTCTAATATTTATGACCTCATCAA  
GACCCCTGAAGACAGCTAAAATTAGAGTGTCTGTTATTGGGTTGTCTGCGGAGGTTTCGAGTTTGTACTGTA  
CTTGCTCGAGAACTGGTGGCACATACCACGTCATCCTAGATGAGACCCATTACAAGGAGCTGTTAGCCC  
GTCATGTGAGCCCTCTCCCGCAGCTCCGGCTCCGAGTGTCTCCCTTATCCGCATGGGATCCCTCAGCA  
TACCATTGCCTCTGTCTGATCAGGATGCAAACCATCCTTCAGCATGGCGCATTTGGATAATAATAGC  
ACTGAACCAGGGCTTACATTGGGAGGCTATTTCTGCCACAGTGTGAGCAAAGTACTGTGAGCTTCCTG  
TCGAATGTAATAATGTGGTCTTACTTTGGTGTCTGCACCTCACTGGCAAGATCTTATCATCATTTATT  
TCCTTTGGATGCTTTTCAAGAAATCCCCCTGGAAGAATAAAAGGAGAGAGGTTTTGTTATGGATGTCAG  
GGTGAATTGAAAGACCAACATGTCTATGTTTGCACAGTGTGCCGGAACGTCTTCTGTGTGGACTGCGATG  
TCTTTGTTACGACTCTCTCCACTGCTGTCTGGCTGTGTTTCATAAGATCCCAACTCAGTCAGGTGTTG  
A

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001077428
<b>Insert Size:</b>	1191 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001077428.1</a> , <a href="#">NP_001070896.1</a>
<b>RefSeq Size:</b>	1394 bp
<b>RefSeq ORF:</b>	1191 bp
<b>Locus ID:</b>	294693
<b>UniProt ID:</b>	<a href="#">A0JN27</a>
<b>Cytogenetics:</b>	2q12
<b>Gene Summary:</b>	Component of the general transcription and DNA repair factor IIF (TFIIF) core complex, which is involved in general and transcription-coupled nucleotide excision repair (NER) of damaged DNA and, when complexed to CAK, in RNA transcription by RNA polymerase II. In NER, TFIIF acts by opening DNA around the lesion to allow the excision of the damaged oligonucleotide and its replacement by a new DNA fragment. In transcription, TFIIF has an essential role in transcription initiation. When the pre-initiation complex (PIC) has been established, TFIIF is required for promoter opening and promoter escape. Phosphorylation of the C-terminal tail (CTD) of the largest subunit of RNA polymerase II by the kinase module CAK controls the initiation of transcription. The N-terminus of GTF2H2 interacts with and regulates XPD whereas an intact C-terminus is required for a successful escape of RNAP II from the promoter.[UniProtKB/Swiss-Prot Function]