

## Product datasheet for **RC232331**

### **GTF2H3 (NM\_001271866) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GTF2H3 (NM\_001271866) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** GTF2H3  
**Synonyms:** BTF2; P34; TFB4; TFIIH  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232331 representing NM\_001271866  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGTTTCAGACGAAGATGAATTGAATCTTCTGGTTATTGTAGTTGATGCCAACCAATTTGGTGGGGAA  
AGCAAGCATTAAAGGAATCTCAGTTCACCTTTATCCAAATGCATAGATGCCGTGATGGTGTGGGAAATTC  
GCATTTATTCATGAATCGTTCCAACAACTTGCTGTGATAGCAAGTCACATTCAAGAAAGCCGATTCTTA  
TATCCTGGAAAGAATGGCAGACTTGGAGACTTCTTCGGAGACCCTGGCAACCCTCCTGAATTTAATCCCT  
CTGGGAGTAAAGATGGAAAATACGAACCTTTAACCTCAGCAAATGAAGTTATTGTTGAAGAGATTAAGA  
TCTAATGACCAAAAAGTGACATAAAGGGTCAACATACAGAAAATTTGCTGGCAGGATCCCTGGCCAAAGCC  
CTTTGCTACATTCATAGAATGAACAAGGAAGTTAAAGACAATCAGGAAATGAAATCAAGGATATTGGCTT  
GTGACATCACGGGAGGACTGTACCTGAAGGTGCCTCAGATGCCTTCTCTTCTGCAGTATTGCTGTGGGT  
GTTTCTCCCGATCAAGATCAGAGATCTCAGTTAATCCTCCCACCCCAAGTTCATGTTGACTACAGGGCT  
GCTTGCTTCTGTCATCGAAATCTCATTGAAATTTGGTTATGTCTGTTCTGTGTGTTTGTCAATATTCTGCA  
ATTTACAGCCCAATTTGTACTACGTGCGAGACAGCCTTTAAAATTTCTCTGCCTCCAGTGTCAAAGCCAA  
GAAAAGAACTGAAAGTGTCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232331 representing NM\_001271866  
Red=Cloning site Green=Tags(s)

MVSDDELNLLVIIVVDANPIWWGKQALKESQFTLSKCIDAVMVLGNSHLFMNRSNKLAVIASHIQESRFL  
 YPGKNGRLGDFFGDPGNPPEFNPSGSKDGKYELLTSANEVIVVEIKDLMTKSDIKGQHTETLLAGSLAKA  
 LCYIHRMNKEVKDNQEMKSRILACDITGGLYLKVPQMPSSLQYLLWVFLPDQDQRSQLILPPPVHVDYRA  
 ACFCHRNLIEIGYVCSVCLSIFCNFSPICTTCETAFKISLPPVLKAKKKKLVSA

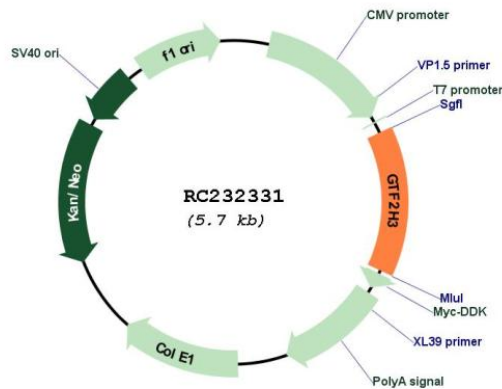
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001271866  
**ORF Size:** 795 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001271866.2</a>
<b>RefSeq Size:</b>	3305 bp
<b>RefSeq ORF:</b>	798 bp
<b>Locus ID:</b>	2967
<b>UniProt ID:</b>	<a href="#">Q13889</a>
<b>Cytogenetics:</b>	12q24.31
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Basal transcription factors, Nucleotide excision repair
<b>MW:</b>	30.1 kDa
<b>Gene Summary:</b>	This gene encodes a member of the TFB4 family. The encoded protein is a subunit of the core-TFIIF basal transcription factor and localizes to the nucleus. The encoded protein is involved in RNA transcription by RNA polymerase II and nucleotide excision repair and associates with the Cdk-activating kinase complex. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 14. [provided by RefSeq, Dec 2012]