

## Product datasheet for SC119181

### GTF2H3 (NM\_001516) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GTF2H3 (NM_001516) Human Untagged Clone
Tag:	Tag Free
Symbol:	GTF2H3
Synonyms:	BTF2; P34; TFB4; TFIIH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119181 sequence for NM_001516 edited (data generated by NextGen Sequencing)

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ATGGTTTCAGACGAAGATGAATTGAATCTTCTGGTTATTGTAGTTGATGCCAACCCAATT
TGGTGGGGAAAGCAAGCATTAAAGGAATCTCAGTTCACCTTATCCAAATGCATAGATGCC
GTGATGGTGCTGGGAAATTCGCATTTATTCATGAATCGTTCACAACTTGCTGTGATA
GCAAGTCACATTCAGAAAGCCGATTCTTATATCCTGGAAAGAATGGCAGACTTGAGAGAC
TTCTTCGGAGACCCTGGCAACCCTCCTGAATTTAATCCCTCTGGGAGTAAAGATGGAAAA
TACGAACTTTTAACCTCAGCAAATGAAGTTATTGTTGAAGAGATTAAAGATCTAATGACC
AAAAGTGACATAAAGGGTCAACATACAGAACTTTGCTGGCAGGATCCCTGGCCAAAGCC
CTTTGCTACATTCATAGAATGAACAAGGAAGTTAAAGACAATCAGGAAATGAAATCAAGG
ATATTGGTGATTAAGGCTGCAGAAGACAGTGCCTTGCAGTATATGAACTTCATGAATGTC
ATCTTTGCAGCACAGAAACAGAATATTTTGATTGATGCCTGTGTTTTAGACTCCGACTCA
GGGCTCCTCCAACAGGCTTGACATCACGGGAGGACTGTACCTGAAGGTGCCTCAGATG
CCTTCTCTTGCAGTATTTGCTGTGGGTGTTTCTCCCGATCAAGATCAGAGATCTCAG
TTAATCCTCCCACCCCGGTTTATGTTGACTACAGGGCTGCTTGCTTCTGTATCGAAAT
CTCATTGAAATGGTTATGTCTGTTCTGTGTGTTGTCAATATCTGCAATTTAGACCCC
ATTTGTACTACGTGCGAGACAGCCTTTAAAATTTCTCTGCCTCCAGTGCTGAAAGCCAAG
AAAAAGAACTGAAAGTGTCTGCCTGA

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Clone variation with respect to NM\_001516.3  
738 a=>g



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001516 unedited NGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGGGACAGC CATGGTTTCAGACGAAGATGAATTGAATCTTCTGGTTATTGTAGTTGATGCCAACCCAAT TTGGTGGGAAAGCAAGCATTAAAGGAATCTCAGTTCACTTTATCCAAATGCATAGATGC CGTGATGGTGTGGGAAATTCGCATTTATTCATGAATCGTTCCAACAACTTGCTGTGAT AGCAAGTCACATTCAAGAAAGCCGATTCTTATATCCTGGAAAGAATGGCAGACTTGGAGA CTTCTTCGGAGACCCTGGCAACCCTCCTGAATTTAATCCCTCTGGGAGTAAAGATGGAAA ATACGAACTTTTAACTCAGCAAATGAAGTTATTGTTGAAGAGATTAAAGATCTAATGAC CAAAAGTGACATAAAGGGTCAACATACAGAACTTTGCTGGCAGGATCCCTGGCCAAAGC CCTTTGCTACATTCATAGAATGAACAAGGAAGTTAAAGACAATCAGGAAATGAAATCAAG GATATTGGTGATTAAGGCTGCAGAAGACAGTGCCTTGCAGTATATGAACTTCATGAATGT CATCTTTGCAGCACAGAAACAGAATATTTTGATTGATGCCTGTGTTTTAGACTCCGACTC AGGGCTCTCCAACAGGCTTGTGACATCACGGGAGGACTGTACCTGAAGGTGCCTCAGAT GCCTTCTCTTCTGCAGTATTTGCTGTGGGTGTTTCTTCCCGATCAAGATCAGAGATCTCA GTTAATCTCCCAACCCCGNTTCATGTTGACTACAGGGCTGCTTGCTTCTGTCATCGAAA ACTCATTGAAATGGCTATGTCTGGTCTGTGTGGTTGGCAATATTCTGCAATCCAGCCCC ATTTG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001516
<b>Insert Size:</b>	4290 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_001516.3</a> , <a href="#">NP_001507.2</a>
<b>RefSeq Size:</b>	1505 bp
<b>RefSeq ORF:</b>	927 bp
<b>Locus ID:</b>	2967
<b>UniProt ID:</b>	<a href="#">Q13889</a>
<b>Cytogenetics:</b>	12q24.31
<b>Domains:</b>	Tfb4
<b>Protein Families:</b>	Druggable Genome, Transcription Factors

**Protein Pathways:** Basal transcription factors, Nucleotide excision repair

**Gene Summary:** This gene encodes a member of the TFB4 family. The encoded protein is a subunit of the core-TFIID 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]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).