

## Product datasheet for **SC119182**

### GTF2H4 (NM\_001517) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GTF2H4 (NM_001517) Human Untagged Clone
Tag:	Tag Free
Symbol:	GTF2H4
Synonyms:	P52; TFB2; TFIH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001517, the custom clone sequence may differ by one or more nucleotides

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ATGGAGAGCACCCCTTCAAGGGGACTGAACCGAGTACACCTACAATGCAGGAATCTGCAGGAATTCTTAG
GGGGCCTGAGCCCTGGGGTATTGGACCGATTGTATGGGCACCCTGCCACATGTCTGGCTGTCTTCAGGGA
GCTCCCATCCTTGGCTAAGAAGGAATTGAGCAAGGCTCAGGAGGAAAGTACAGGGCTGCTGAGCGGCCTCC
GTAGCTCTGTGGTAAAGAAGGAATTGAGCAAGGCTCAGGAGGAAAGTACAGGGCTGCTGAGCGGCCTCC
GGATCTGGCACACACAGCTGCTCCAGGCGGGCTCCAGGGCTCATCCTCAACCCCATTTCCGCCAGAA
CCTCCGCATTGCCCTTCTGGGTGGGGGAAGGCCTGGTCTGATGACACAAGTCAAGTGGGACCAGACAAG
CATGCCCGGGACGTTCCCTCCCTTGACAAGTACGCCGAGGAGCGATGGGAGGTGGTCTTGCACCTCATGG
TGGGCTCCCCAGTGCAGCTGTCAGCCAGGACTTGGCTCAGCTCCTCAGCCAGGCTGGGCTCATGAAGAG
TACTGAACCTGGAGAGCCGCCCTGCATTACTTCCGCTGGCTTCCAGTTCCCTGTTGCTGGACACCCCGCT
CAGCTCTGGTACTTTATGTTGCAGTATTTGCAGACAGCCAGAGCCGGGGCATGGACCTGGTAGAGATTC
TCTCCTTCTCTTCCAGCTCAGCTTCTCTACTCTGGGCAAGGATTACTCTGTGGAAGGTATGAGTGATTC
TCTGTTGAACTTCTGCAACATCTGCGTGAGTTGGGCTGTTTTCCAGAGGAAGAGGAAATCTCGGCGT
TACTACCCACACGCCTGGCCATCAATCTCTCATCAGGTGCTCTGGAGCTGGGGCACTGTGCATCAGC
CAGGTTTCATTGTCGTGGAACCAATTACCGACTGTATGCCTACACGGAGTCGGAGCTGCAGATTGCCCT
CATTGCCCTCTTCTCTGAGATGCTCTATCGGTTCCCAACATGGTGGTGGCGCAGGTGACCCGGGAGAGT
GTGCAGCAGGCAATCGCCAGTGGCATCACAGCCAGCAGATAATCCATTTCTAAGGACAAGAGCCACC
CAGTGATGCTCAAACAGACACCTGTGCTGCCCCCACCATCACCAGCAGATCCGGCTCTGGGAGCTGGA
AAGGGACAGACTCCGTTCACTGAGGGTGTCTGTATAACCAGTTCCTGTGCAAGTGGACTTTGAGCTG
CTGCTGGCCACGCGGGAGCTGGGCTGCTCGTGTTCGAGAAGTCCGCCAAGCGGCTCATGGTGGTGA
CCCCGGCCGGGCACAGCGACGTCAAGCGTTTTGGAAGCGGCAGAAACATAGCTCCTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001517 unedited            CGGCATTGTATACGACTCCTATAGCGGCCGCGNAATTCGCACGAGGCTGAATTCTCCA            TTCTGGGCTCTTGCTGTGAAATCTTTCTTTGCTTTCCCATCTTTCTCGCATTTTTT            CACCATCTTTCCCTCAATCTCCAGGAGCCAATGCGAGACTTTGGCTCCGATTAAGCGACG            GCCCGAGACTCGGGGTGCGCGAGGAGGATCGACAGAGTGGTGTGGAGAGCACCCCTTCA            AGGGGACTGAACCGAGTACACCTACAATGCAGGAATCTGCAGGAATCTTAGGGGCCTG            AGCCCTGGGGTATTGGACCGATTGTATGGGCACCCTGCCACATGTCTGGCTGTCTTCAGG            GAGCTCCCATCCTTGGCTAAGAAGTGGGTGATGCGGATGCTCTTTCTGGAGCAGCCTTTC            CCACAGGCTGCTGTAGCTCTGTGGGTAAGAAGGAATTCAGCAAGGCTCAGGAGGAAAGT            ACAGGGCTGCTGAGCGGCTCCGGATCTGGCACACACAGCTGCTCCAGGCGGGCTCCAG            GGCCTCATCTCAACCCATTTCCGCCAGAACCTCCGATTGCCCTTCTGGGTGGGGG            AAGGCTGGTCTGATGACACAAGTCACTGGGACCAGACAAGCATGCCGGGACGTTCCC            TCCCTTGACAAGTACGCCGAGGAGCGATGGGAGTGGTCTTGCATTCATGGTGGCTCC            CCCAGTGCAGCTGTCAGCCAGGACTTGGCTCAGCTCCTCAGCCAGGCTGGGCTCATGAAG            AGTACTGAACCTGGAGAGCCGNCCTGCATTACTTCCGCTGGCTTCCAGTTCCTGTTGCTG            GACACCCNGCTCAGCTCTGGTACTTTATGNTGCAGTATTTGCAGACAGCCANCCGGG            CATGGACCCTGGTANAGATCTCTCTTCTCCTCAGCTCAGCTTN</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001517 unedited            GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTGGCTAGCTATCATAA            CTTTATTAACAAGAAAAGCCCTGACGCGTAAATAAAAAACCTGAGTTCTGATGCCCC            GCCCGCCAGTCCCGCCGCGAGGTCGGTGTCCAAGTCCCGCCTCTCAGGAGCTATG            TTTCTGCCGCTTCCAAAAGCGCTTGACGTCGCTGTGCCCGCCGGGGTACCACCATGAG            CCGCTTGCCGAGTTCTCGAACACGAGCAGCCAGCTCCCGCGGTGGCCAGCAGCAG            CTCAAAGTCCACTTGCACAGGAAGTGTATACAGGACACCCTCAGTGAACCGGAGTCT            GTCCCTTCCAGCTCCAGAGCCGGATCTGGTCCGTGATGGTGGGGGAGCAGCAGGTGT            CTGTTTGAAGTCACTGGGTGGGCTCTTGTCTTAGGAAATGGATTATCTGCTGGGCTGT            GATGCCACTGGGATTGCCTGTGCACACTCTCCCGGGTCACTGCGCCACCACCATGTT            GGGGAACCGATAGAGCATCTCAGAGAAGAGGGCAATGAGGGCAATCTGCAGCTCCGACTC            TGAGCCAGGGATAGAAAGAGGATGAGGAGGCCACCCACACCCAGACTCCCTCAAGCCC            TTCTTTCAAGTGTATGAGAAATGTCAGAGAGCTCTGTAGACTGCCAGGTAACACGGAAC            ATAACTGGCATTCCCTCACCCCAACCTTCTTCCAGGGGCCNTCTGTCCCGCTCA            CCCGTGTAGGCATACAGTCGGGTATTGGGTTTCCACGACATGAAACCTGGCTGATGCACA            GTGCCCCAGCTCCAGAGACACCTGATGAGAGATTGATGGCCANGCGTGTGNGTAGTAA            CGCCGAGATTTCTCTGAAANGATAAAAGGCAGATGCCTGNCTCANAAGCACTGGCTTAA            TCTNCTGCTGAATATCAGACCCTCCAGAGCAGACCTCACCNCACTCT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001517
<b>Insert Size:</b>	2100 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>	<u><a href="#">NM_001517.4</a></u> , <u><a href="#">NP_001508.1</a></u>
<b>RefSeq Size:</b>	1736 bp
<b>RefSeq ORF:</b>	1389 bp
<b>Locus ID:</b>	2968
<b>UniProt ID:</b>	<u><a href="#">Q92759</a></u>
<b>Cytogenetics:</b>	6p21.33
<b>Domains:</b>	Tfb2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Basal transcription factors, Nucleotide excision repair
<b>Gene Summary:</b>	Component of the general transcription and DNA repair factor IIH (TFIIH) 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, TFIIH 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, TFIIH has an essential role in transcription initiation. When the pre-initiation complex (PIC) has been established, TFIIH 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.[UniProtKB/Swiss-Prot Function]