

Product datasheet for **SC323740**

GTF3C2 (NM_001521) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTF3C2 (NM_001521) Human Untagged Clone
Tag:	Tag Free
Symbol:	GTF3C2
Synonyms:	TFIIIC-BETA; TFIIIC110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001521.2
CGAGGGGGCAGCCATTTTGGGGGTGCTGATGGATACCTGCGGGGTCGGCTATGTTGCC
TGGGGGAGGCCCGCCCCGTGGGAACATGACTGTGGTAGACTCTCCTGGACAAGAGGTGC
TAAATCAGCTTGATGTCAAGACCTCTTCAGAAATGACCAGTGCAGAGGCTTCCGTAGAGA
TGTCATTACCTACCCCTTTGCCTGGATTGAGGATTCTCCTGATCAGAGGAGGCTCCCTC
CAGAGCAGGAAAGCCTCTCCAGACTGGAACAGCCAGATCTTTCTCAGAGATGTCAAAGG
TCTCAAAGCCTAGGGCCTCAAAGCCTGGCCGGAAGAGAGGTGGTAGGACACGAAAAGGCC
CCAAAAGGCCCAACAGCCTAATCCTCCATCAGCCCCACTGGTTCCTGGTCTCTTAGATC
AATCCAACCTCTGTCCACCCCATGCCTAAGAAACGAGGTGCAAAGTCCAAGGCAGAGC
TGCTGCTGCTGAAGTTGTCAAAGACCTAGATCGGCCAGAATCTCAATCTCCAAAGAGGC
CCCCTGAGGACTTTGAGACCCCTTCTGGGGAACGACCCCGCCGAAGGGCTGCCAAAGTGG
CACTTCTGTATCTTCAGGAACCTGGCTGAAGAGCTCTCAACAGCCCTGCCTGCCCTGTGT
CCTGTCTGAGGGCCCCAAGGTGAGCAGCCCCACCAAACCGAAGAAGATCCGGCAGCCAG
CAGCCTGTCCAGGTGGAGAAGAGGTGGATGGTGTCCACGGGATGAAGACTTTTTTCTCC
AGGTTGAGGCTGAAGATGTGGAAGAAAGTGAGGGCCCAAGTGAGAGCTCATCTGAACCTG
AGCCTGTAGTGCCCCGAAGCACCACAGGATCTACTTCAGGGAACAGAAACCACT
GCCGAGGAATGGCTCCCAATGGCTTACCAGATCATATCATGGCTCCTGTTTGAAGTGCC
TCCATCTACCAAGGACTTCCGAGAGCAGAAACATTCATACTGGGAGTTTGTCTGAGTGA
TTCCCTTAGCCTGGAAGTGGCACTTGTTATCTGAGCTTGAGGCCGCTCCCTACCTGCCCC
AGGAGGAGAAGTCTCCATTGTTTTCTGTACAACGTGAAGGGCTACCTGAAGATGGCACCC
TCTACCGAATAAACAGATTTAGCTCGATCACAGCACATCCAGAGCGCTGGGATGTGTCT
TCTTACGGGGGACCGCTCTGGCTCTGGACTGGTGGCCAGTGCCAGAGGGGGCAGGAG
CCTCGCAATATGTGGCTTTTTCTCCAGCCCTGACATGAATGAGACACACCCACTGAGCC
AGCTTCATTGGGTCTGGGCTGCTCCAGCTCTGGGGCCTTGGGACCTTGACGAAGAAA
GCTGTCTGGCAACAGGGCCACTTTGTCTATGGGATTGCTGTGACAACGGCTGCATCT
GGGACCTCAAGTTCTGCCCCAGTGGAGCATGGAACTTCCAGGCACCCCTCGGAAGGCTC
CTCTCTGCCCGTTGGTCTCTTGGCTCTGGCTGCTCAGACGGAAAGTACTGCTAT



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TCAGTCTACCCCATCCGGAGGCCCTGCTGGCTCAGCAACCCCCAGATGCAGTGAAGCCTG
 CCATATAAAGGTACAATGTGTGGCAACTCTGCAGGTGGGGTCTATGCAAGCTACAGACC
 CCTCTGAGTGTGGTCAGTGCCTTAGCCTGGCCTGGATGCCTACCAGGCCCCACCAACACC
 TAGCTGCTGGATATTATAATGGCATGGTGGTTTTCTGGAACCTTCCCCTAACTCACCCC
 TGCAGCGGATACGGCTCTCTGATGGCTCCTTAAAGCTCTACCCCTTCCAGTGTTCCTAG
 CCCATGACCAGGCTGTGCGTACCCTTCAATGGTGCAAAGCTAACAGCCATTTCTTGTCT
 CTGCGGGGAGTGACCCGAAAATCAAATTTCTGGGACCTTCGACGTCCTTACGAACCCATAA
 ACTCTATCAAGCGCTTCTTGAGTACAGAAGTGGCCTGGCTGCTTCCCTACAATGGTGCA
 CTGTGGCTCAGGACAAGTCTATGCCTCTTATGGACTCTGTGGGATTCATTATATTGACG
 CTGTTTACCTTGGTTTCAAGGCCTACTTCACTGCTCCTCGAAAAGGCACCGTTTGGAGTC
 TTTCCAGGATCCGACTGGCTTGGGACAATAGCTGCAGGAGATATATCCGGGGAGCTCATTG
 CTGCTATATTACCAGATATGGCACTGAATCCAATAAATGTCAAGCGACCTGTAGAGCGAA
 GATTTCTATATAAAGCAGATCTGATACCGTATCAGGACAGTCTGAAGGTCCAGACC
 ATTTCTTCTGCTTCTGCTTCCCAACCTCCTAAGGCTCGAAGTTACTGAACTG
 TCAACCATCACTACTTGTCTTTCAAGACACAGATTTGGGTTTCCATGATCTGCTCC
 GTAGAGAACCAATGCTGCGCATGCAAGGAGGAGAGGGGATTCTCAACTTGCCTGGACA
 GGCTGCAGCTGGAGGCTATTCATAAAGGTACGTTTCAGCCCAAACCTGGACTCCTATGGAT
 GGCTGGTATCTGGGGGGCAGTCAGGGCTGGTTCGAATCCATTTTGTCCGTGGACTCGCCT
 CCCCCTGGGCCACCGTATGCAGCTTGAAGGCCGAGCCCACTTCAATGCTATGTTCCAAC
 CATCTCCCCACTAGACGGCCTGGCTTCTTCCAACAGCCATCGCCTTCTGCCCACTC
 CCTAGCCTTGGCCACACCAGATCCTTGGAGTGAAGTCGGTCAAGAACAATGGCCCTA
 TGCACAGAGCCATAGGAAGTGGGGCCTTCCCTGGACAGTGCATGCCAGGCCTGGACC
 TTTAGCCTGCCTCCCCAGGACTCCTTAGATCCCACTTTTCTACAGACTTCTGTGATCA
 CAGCCCCCTGCGGGCAGGGGGCTCTCCCTCCACCAACTCTCAAGGCTCCTCAGCCTAAG
 ACTATGGCTCATGAGAAACTCAGGCCTGACCTAGGCTTGGGAGTCAAAGTCTCATAT
 TGAGCATATTGTTAAGTGGGTAAAGCCAAGTAAAGGTAAGTGGTGTTTTGTGACCACTT
 GTGAATGGGTGTATGGAGAACTGAAAAGGGTATCTGCATGAAGGCTCCTGTGACTATT
 CCAGGATCCAATATTACTGCCTTCTGAACTTCTCTTTAGGGTAACCATCATGTATGCC
 CACGAGGGTGATAGTAATTCGTGAGACTGAAGTTGCTTAGAGTACTTCTTTGACCAAGGA
 ATACCACAGACACCCTACCGATAGAACAGTGGCTCAGATCTTACTTGTCTCTGCTTACGA
 AGTATTCCAATCACTGGTCATCTGACCCTACTTGAACACTCCTGAACAGTCATGTTTTT
 TAAAATCTTCTTATATCAAGTCAGAGAGTATACTTCTATAAATTTCACTCATGGATGT
 TAGGAAATCTAGTCATCTTCCCTGTGATTGCCCTGTTAAGTATTTAACCATAGCTATCAT
 GTGTTTCCCAATCTTCTCTAGATTAATATCTTCAGTTACTTCAAAAAAAAAAAAAAAAAA

- Restriction Sites:** ECoRI-NOT
- ACCN:** NM_001521
- OTI Disclaimer:** 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- Components:** 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_001521.2](#), [NP_001512.1](#)

RefSeq Size: 3935 bp

RefSeq ORF: 2736 bp

Locus ID: 2976

UniProt ID: [Q8WUA4](#)

Cytogenetics: 2p23.3

Domains: WD40

Protein Families: Transcription Factors

Gene Summary: Required for RNA polymerase III-mediated transcription. Component of TFIIC that initiates transcription complex assembly on tRNA and is required for transcription of 5S rRNA and other stable nuclear and cytoplasmic RNAs. May play a direct role in stabilizing interactions of TFIIC2 with TFIIC1.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) differs in the 5' UTR and coding sequence compared to variant 3. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 1 and 2 both encode the same isoform (b).