

Product datasheet for **SC316820**

TCF12 (NM_003205) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF12 (NM_003205) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCF12
Synonyms:	bHLHb20; CRS3; HEB; HsT17266; HTF4; p64; TCF-12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_207038, the custom clone sequence may differ by one or more nucleotides

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ATGAATCCCCAGCAACAACGCATGGCCGCTATAGGGACCGACAAGGAGCTGAGCGACCTACTGGACTTCA
GTGGCATGTTTTCCACCTGTTAATAGTGGGAAAACCTAGACCAACTACACTGGGAAGCAGTCAATTCAG
TGGATCAGGTATTGATGAAAGAGGAGGTACAACATCTTGGGGAACAAGTGGTCAACCAAGTCCTTCCTAT
GATTCATCTAGAGGTTTTACAGACAGCCCTCATTACAGTGATCACTTGAATGACAGTCGATTAGGAGCCC
ATGAAGGCTTGTCCTCAACACCTTTTCATGAACTCAAATCTGATGGGAAAAACATCAGAGAGAGGCTCATT
TTCCCTGTACAGCAGAGATACTGGATTACCAGGCTGTCAATCTAGTCTCCTGAGACAAGATCTGGGGCTT
GGGAGCCCAGCACAGCTATCTTCTTCAGGAAAACCTGGGACAGCATACTATTCTCTGCTACAAGTT
CCAGGAGGAGACCCTCCATGACTCTGCAGCGCTTGATCCCTTGAAGCAAAAAAAGTCAGAAAGGTGCC
TCCTGGTTTGCCTTCTTCTGTATATGCACCATCCCCAAATTCAGATGATTTCAACCGTGAATCTCCTAGT
TATCCATCTCCTAAGCCACCAACAGTATGTTTCGCTAGCACTTTCTTTATGCAAGATGGGACCCACAATT
CTTCTGACCTTTGGAGTTCATCAAATGGGATGAGCCAGCCTGGTTTTGGTGAATTCTGGGGACCTCCAC
TTCCCACATGTCTCAATCCAGTAGTTATGGCAACCTTCATTCACATGACCCTTGAGTTATCCTCCACAC
TCAGTTTCACCAACAGACATAAACACGAGTCTTCCACCAATGTCCAGCTTTCATCGCGGCAGTACCAGCA
GTTACCTTACGTTGCTGCCTCACACACTCCTCCCATCAATGGATCAGACAGCATTCTAGGAACCAGAGG
GAATGCTGCTGGAAGCTCACAGACAGGTGATGCACTTGGAAAGGCTTTGGCATCTATTTATTCTCCTGAC
CATACCAGCAGTAGTTTTCCGTCAAATCCATCAACACCAGTTGGATCACCTTCACCTCTCACAGGTACCA
GTCAGTGGCCAAGACCTGGAGGGCAAGCACCTTCATCCCCAAGCTATGAAAACCTCACTCCACTCCCTGCA
GTCTCGAATGGAGGATCGTTTAGACAGACTGGATGATGCAATCCATGTGCTGCGGAACCATGCTGTGGGA
CCTTCCACCAGTTTGCCTGCTGGTCACAGTGATACATAGTTTTATTGGGACCATCCCATAAATGCACCAA
TTGGAAGCCTCAATTCAACTATGGAGGATCAAGCCTTGTGCAAGCAGTCGATCAGCTTCAATGGTTGG
AACTCATCGGAAGACTCTGTCAGTCTCAATGGCAATCATTGAGTCTGTCTAGTACAGTCACTACTTCA
AGCACAGACCTGAACCATAAAACACAAGAAAATTATAGAGGTGGCTTGCAAAGTCAGTCTGGAAGTGTG
TTACAACAGAAATCAAGACTGAAAACAAAAGAAAAGGATGAAAACCTTCATGAACCTCCTTCATCAGATGA
CATGAAGTCAGATGATGAATCCTCCAAAAAGATATCAAGGTTTCATCTAGAGGCAGAACAAGCAGTACT
AATGAAGATGAGGATTTGAACCTGAACAGAAGATAGAAAGGGAGAAGGAGAGCGGATGGCTAACAAATG
CCAGAGAACGCTTACGCGTGCGGGATATTAATGAAGCATTCAAAGAGCTTGGCCGATGTGTCAGCTTCA
CTTGAAGAGTAAAAACCCAAACAAAACCTCCTTATTCTTCATCAAGCCGTGGCAGTCATCCTTAGTCTA
GAACAGCAAGTCAGAGAGAGGAACCTTAACCCCAAGCAGCCTGCCTTAAGAGAAGGGAAGAAGAAAAAG
TTTCTGCCGTATCGGCAGAGCCGCAACCACTGCCAGGAACCCATCCTGGGCTTAGTGAACCTACCAA
CCCTATGGGTCATATGTAA
    
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Restriction Sites: Please inquire
ACCN: NM_003205
Insert Size: 4600 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

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_003205.3](#), [NP_003196.1](#)

RefSeq Size: 4734 bp

RefSeq ORF: 2049 bp

Locus ID: 6938

UniProt ID: [Q99081](#)

Cytogenetics: 15q21.3

Domains: HLH

Protein Families: Druggable Genome, Transcription Factors

Gene Summary:

The protein encoded by this gene is a member of the basic helix-loop-helix (bHLH) E-protein family that recognizes the consensus binding site (E-box) CANNTG. This encoded protein is expressed in many tissues, among them skeletal muscle, thymus, B- and T-cells, and may participate in regulating lineage-specific gene expression through the formation of heterodimers with other bHLH E-proteins. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) differs in the 5' UTR and coding region (compared to variant 1), resulting in a protein that maintains the reading frame but is shorter, compared to isoform a. Variants 3 and 4 encode the same isoform b.