

Product datasheet for **SC308374**

TCF12 (NM_207040) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TCF12 (NM_207040) Human Untagged Clone
Tag: Tag Free
Symbol: TCF12
Synonyms: bHLHb20; CRS3; HEB; HsT17266; HTF4; p64; TCF-12
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_207040 edited
 GTAACATTTTCAAATCAACATGTATTGTGCTTATCCTGTCCCTGGAATGGGCAGCAATT
 CTTTGATGTATTACTACAATGGGAAAACGGTATATGCACCATCCCCAAATTCAGATGATT
 TCAACCGTGAATCTCCTAGTTATCCATCTCCTAAGCCACCAACCAGTATGTTTCGCTAGCA
 CTTTCTTTATGCAAGATGGGACCCACAATTCTTCTGACCTTTGGAGTTTCATCAAATGGGA
 TGAGCCAGCCTGGTTTTGGTGGAAATTCTGGGGACCTCCACTTCCCACATGTCTCAATCCA
 GTAGTTATGGCAACCTTCATTCACATGACCGCTTGAGTTATCCTCCACACTCAGTTTCAC
 CAACAGACATAAACACGAGTCTTCCACCAATGTCCAGCTTTCATCGCGGCAGTACCAGCA
 GTTCACCTTACGTTGCTGCCTCACACACTCCTCCCATCAATGGATCAGACAGCATTCTAG
 GAACCAGAGGGAATGCTGCTGGAAGCTCACAGACAGGTGATGCACCTTGGAAAGGCTTTGG
 CATCTATTTATTCTCCTGACCATACCAGCAGTAGTTTTCCGTCAAATCCATCAACACCAG
 TTGGATCACCTTACCTCTCACAGGTACCAGTCAAGTGGCCAAGACCTGGAGGGCAAGCAC
 CTTTCATCCCCAAGCTATGAAAACACTCACTCCACTCCCTGCAGTCTCGAATGGAGGATCGTT
 TAGACAGACTGGATGATGCAATCCATGTGCTGCGGAACCATGCTGTGGGACCTTCCACCA
 GTTTGCCTGCTGGTCACAGTGATATACATAGTTTATTGGGACCATCCCATAATGCACCAA
 TTGGAAGCCTCAATCAAACATATGGAGGATCAAGCCTTGTGCAAGCAGTCGATCAGCTT
 CAATGGTTGGAACCTCATCGGGAAGACTCTGTCAGTCTCAATGGCAATCATTCAAGTCTGT
 CTAGTACAGTCACTACTCAAGCACAGACCTGAACCATAAAACACAAGAAAATATAGAG
 GTGGCTTGCAAAGTCAGTCTGGAACCTGTTGTTACAACAGAAATCAAGACTGAAAACAAAG
 AAAAGGATGAAAACCTTTCATGAACCTCCTTCATCAGATGACATGAAGTCAGATGATGAAT
 CCTCCCCAAAAGATATCAAGTTTCATCTAGAGGCAGAAACAAGCAGTACTAATGAAGATG
 AGGATTTGAACCCTGAACAGAAGATAGAAAAGGAGAAGGAGAGGCGGATGGCTAACAAATG
 CCAGAGAACGCTTACGCGTGCGGGATATTAATGAAGCATTCAAAGAGCTTGGCCGAATGT
 GTCAGCTTCACTTGAAGAGTAAAAACCCCAAACAAAACCTTATTCTTCATCAAGCCG
 TGGCAGTCATCCTTAGTCTAGAACAGCAAGTCAGAGAGAGGAACCTTAACCCCAAAGCAG
 CCTGCCTTAAGAGAAGGGAAGAAGAAAAAGTTTCTGCCGTATCGGCAGAGCCGCCAACCA
 CACTGCCAGGAACCCATCCTGGGCTTAGTGAAACTACCAACCCTATGGGTCATATGTAAA



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CATCAGCCAGTTCAGAGTTATCAGTAGGCTAGATAGAAGGTGACCTCTCCTCATAAGGA
 CTTGGACAACCTCAGATTATCTGAAGACACAAACCTGACAGGAGGGAGAAGAAAAACAAA
 ACACCTGAAACCAAGAACTCAAATGTAATCCTACGATCAAAGCAACTGGTCAACACTTCC
 ATCAGAAGTGAAGATAGGAAGCTCATCAGATAGAACATCAGCCCATGAGATGTTTGCAAC
 AAATCTTTTGTGCAAGCAGTGTGTCGCTTCTGCACAATCAGAGACTGTCTCGATCTCTC
 CACTCACCGTGAAGTTGCCTTGTGCCTAACTGAATTGACAAATGCATTGTAACATAAA
 ATTTTATTTATTGTTATGAACTGTAAGGTCTACATATAAAGGGAAAAAGTTAATGTGGA
 AAGCTGATCTACACTCAGCTGATGCCAGCATACATTAAGCGGTTACAGTGCAGAGAACA
 AAGCAGTGACAACCATTGGCCCTTAGCATTCCCGGCATACCTATTAGTGTCTTAAAAAGG
 AAGGGAAAAAGTCTTTTGTGCCCTCTCCTATCCTCTTGCCATATGAATAGCGTTTTCCAT
 GAAATAGGAAAATATTACTTGGTATAGCATTCTCTTGCTCTCATTTTTTGTATTTTT
 TATTTTCTCTTTGGGTGTTATTTTGTCTCTAAATCTGAACAGTTTATGGTCACAGT
 CCAGCCTCCTCCGTGCAGCCCTGTGTGCTTTGCACATTTACCTTACAGTGGTAAGCAGAG
 ACCATCTGTGACCATAGCCTAGCTAGCATTAAAAAGGGGAAATTTTGTCTCTAGGTTT
 TCCCCAAATAAACATTGCTTTATTTCTAATAATAACCAAGACTTTTCAAGCTTCTAGAT
 CTCATAGGAAAGCTTGTAAATAGCAAAATGTAAATTACAAGGGAAGAATCTACTTTTTAG
 AAATCGCTTTGTTTTCCAAGCAGTAAGTACTACATACAGTACTTGTAAAGTGTAGCTGT
 AAGTAAGCACAAAATACATTTAAAAATACAAAGACGATTTTTTTCAGGCTGTGATTATGGT
 AACATAACAAAACCCAGTAGTCACCAAGGCAGGTAGTGTGATAAATGAACACACCACTCT
 GAGGCTAATTACCTAATGGAATACAAGAGCAATGGTCACCCGATTTTCTTATCCTAGCC
 TTTATTTCTCTGTCAATTTGGATGGCTGGTCAATGGGGAAGAATTGAGTGGGTGATTTAAT
 CAACTGCAAACCATCTGCCCTGTCCAAAATGATGAGCCAGATTAGCATTAAACCAGTA
 CTTGTCAGTCCATCTTAATACTGTTTCAATTAAGGCACTCTGTCTCTAATCCTTAGGAGT
 TGTTTTAAAAGACATAATCACTTTGAACTTCCATGAAACCTGTCTTCCACCACAACAAC
 CTGGGAGAGAAAAACATGCTAAAGGAGGTATCTTGGCTTAATAATTCTTATAGCCAATA
 TCAACAGTGGCAATCAGCACACAGAGGAAAGGACCCAAATCACTATGTAGCTTAAAGATT
 TCTGTTAATTTGAAAGAACAAAAACAAGACAGAACTTCTGGTACTCTAATCAGGATGATT
 CCTAACAGTCAGTCATTTGTGAACTTAGTGGACTTTTTGGTTACTTTAATTTGCATATA
 TTCTCCAGTTACATCGGACTCTATCTGTGGCCTTGTCTTCAATTCAGTGTAAATCAGCT
 AAACAGAAGTTGTTGCTTATGATGTGTGAGTGAACATATGCCACTGCCTGGCCTTTTTTT
 CTTCAGAGCTTGTGCTTTTTTCGCTATATTAGACTTTGCAGTATGCCCAGAAGCTTTCC
 TTCATAAAATAGAAAGAAAAAACATTTGGCTTATTTTTCACTGTAGCTAGCTTTTTATA
 CAATAATCTTGTAAGAAAATTTCTTGAATTCTAAATATTACTTTTCTAGATTTTTGAAA
 TCAAAAAGTTTTTCAGTAAAAAGTTTCTTACTTTATTTTATTATATTAGGTAGTAAAAAT
 GTAGGGTTATTTACCATAACCTGTTTCAATTAATATCAGAAATTTACAATAGCATTTTAAGA
 CCATAGTAGGATTCTAGCATACCGTGTAGTACCTATGGAGTATTGTAAGAGCTAATTGTT
 GGAGATGAATTGCTTCTCATCTTGTCTCCAGTTCCATTGTTGGTTTATTGCAGATTTG
 TATCCTGTGTCAAATCAAGGTATTATTGATAAACCTTTTCAACCAGCAGCAAGAAGTTC
 AAATTTTTTTCTGTCACTGTAACAGAAAAACAATATGTATATAACATTTATGTAGCAAT
 AAATGTGCCATCTTTTTTTAAAAAAGAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_207040
Insert Size: 4000 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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_207040.1.

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_207040.1](#), [NP_996923.1](#)

RefSeq Size: 3995 bp

RefSeq ORF: 1539 bp

Locus ID: 6938

UniProt ID: [Q99081](#)

Cytogenetics: 15q21.3

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 (5) has multiple differences in the 5' UTR and coding region compared to variant 1. This results in a shorter isoform (c) with a distinct N-terminus, compared to isoform a.