

Product datasheet for **SC330097**

TCF4 (NM_001243226) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF4 (NM_001243226) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCF4
Synonyms:	bHLHb19; CDG2T; E2-2; FECD3; ITF-2; ITF2; PTHS; SEF-2; SEF2; SEF2-1; SEF2-1A; SEF2-1B; SEF2-1D; TCF-4
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >SC330097 representing NM_001243226.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGTTTTCTAAAAGGCTGGAGAAAATAGCACAGGTGCCTCTCCTCTTCCCTTCATCTTCATCATTTTG
 ACAAACTACTCAAAGATGGAGGGTGCAGTTGAAAGCCAGCCATCATTTTTTAAAACCTTCAGGACATT
 GTAACACTGCACCTGGGTTGAGAAGCTGCTACTCGAGCTTCCAGGAGGCCCTTGGAGCAAATGTTTTGT
 AAACACCAATCTAAGAACATTATCTCTTGGACGGGCATGGTGGCTCACACCTGTAATCCCAGCACCTTTG
 GGAGGCCAAGGTTTGTGTGATTTTGTCTAAAATGCATCACCAACAGCGAATGGCTGCCTTAGGGACGGAC
 AAAGAGCTGAGTGATTTACTGGATTTTCACTGCGATGTTTTTACCTCCTGTGAGCAGTGGGAAAAATGGA
 CCAACTCTTTGGCAAGTGGACATTTTACTGGCTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCTGG
 GGAATGGAGGACATCCAAGCCCGTCCAGGAAGTGGAGATGGGACTCCCTATGACCACATGACCAGC
 AGGGACCTTGGGTACATGACAATCTCTCCACCTTTTGTCAATTCCAGAATACAAAGTAAAACAGAA
 AGGGGCTCATACTCATCTTATGGGAGAGAATCAAACCTACAGGGTGGCCACCAGCAGAGTCTCCTTGG
 GGTGACATGGATATGGGCAACCCAGGAACCTTTCGCCACCAAACCTGGTCCAGTACTATCAGTAT
 TCTAGCAATAATCCCGAAGGAGGCCTTTCACAGTAGTCCATGGAGGTACAGACAAAGAAAGTTCGA
 AAAGTTTCTCCAGGTTTGCATCTTCAGTCTATGCTCCATCAGCAAGCACTGCCACTACAAATAGGGAC
 TCGCCAGGCTATCCTTCTCAAACCCAGCAACCAGCACCTTCCCTAGCTCCTTTCATGCAAGATGGC
 CATCACAGCAGTGACCCTTGGAGCTCCTCCAGTGGGATGAATCAGCCTGGCTATGCAGGAATGTTGGGC
 AACTCTTCTCATATCCACAGTCCAGCAGCTACTGTAGCCTGCATCCACATGAACGTTTGGAGTATCCA
 TCACACTCCTCAGCAGACATCAATCCAGTCTTCTCCGATGTCCACTTTCATCGTAGTGGTACAAAC
 CATTACAGCACCTTCTCTGTACGCCTCCTGCCAACGGGACAGACAGTATAATGGCAAATAGAGGAAGC
 GGGGACGCCGAGCTCCAGACTGGAGATGCTCTGGGAAAGCACTTGCCTCGATCTATTCTCCAGAT
 CACATAACAACAGCTTTTCATCAAACCTTCAACTCCTGTTGGCTCTCCTCCATCTCTCAGCAGGC
 ACAGCTGTTTGGTCTAGAAATGGAGGACAGGCCTCATCGTCTCCTAATTATGAAGGACCCTTACACTCT
 TTGCAAAGCCGAATTGAAGATCGTTTAGAAAGACTGGATGATGCTATTCATGTTTCCGGAACCATGCA
 GTGGGCCATCCACAGCTATGCCTGGTGGTCTGGGGACATGCATGGAATCATTGGACCTTCTCATAAT
 GGAGCCATGGGTGGTCTGGGCTCAGGGTATGGAACCGGCCTTCTTTCAGCCAACAGACATTCACATG
 GTGGGGACCCATCGTGAAGATGGCGTGGCCCTGAGAGGCAGCCATTCTCTTCTGCCAAACAGGTTCCG
 GTTCCACAGCTTCTGTCCAGTCTGCGACTTCCCTGACCTGAACCCACCCAGGACCCTTACAGAGGC
 ATGCCACCAGGACTACAGGGGACAGTGTCTCCTCTGGCAGCTCTGAGATCAAATCCGATGACGAGGGT
 GATGAGAACCTGCAAGACACGAAATCTTCGGAGGACAAGAAATTAGATGACGACAAGAAGGATATCAA
 TCAATTAAGTCAAGATCTAGCAATAATGACGATGAGGACCTGACACCAGAGCAGAAGGCAGAGCGT
 GAGAAGGAGCGGAGGATGGCCAACAATGCCGAGAGCGTCTGCGGGTCCGTGACATCAACAGGGTTTC
 AAAGAGCTCGGCCGATGGTGCAGCTCCACCTCAAGAGTGACAAGCCCCAGACCAAGCTCCTGATCCTC
 CACCAGGCGGTGGCCGTCATCCTCAGTCTGGAGCAGCAAGTCCGAGAAAGGAATCTGAATCCGAAAGCT
 GCGTGTCTGAAAAGAAGGGAGGAAGAGAAGGTGTCTCAGAGCCTCCCCCTCTCTCTTGGCCGGCCCA
 CACCCTGGAATGGGAGACGCATCGAATCACATGGGACAGATGAA

Restriction Sites: EcoRI-HindIII
ACCN: NM_001243226
Insert Size: 2322 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](#)

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_001243226.1](#)

RefSeq Size: 8086 bp

RefSeq ORF: 2322 bp

Locus ID: 6925

UniProt ID: [P15884](#)

Cytogenetics: 18q21.2

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

MW: 83.4 kDa

Gene Summary:

This gene encodes transcription factor 4, a basic helix-loop-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is broadly expressed, and may play an important role in nervous system development. Defects in this gene are a cause of Pitt-Hopkins syndrome. In addition, an intronic CTG repeat normally numbering 10-37 repeat units can expand to >50 repeat units and cause Fuchs endothelial corneal dystrophy. Multiple alternatively spliced transcript variants that encode different proteins have been described. [provided by RefSeq, Jul 2016]

Transcript Variant: This variant (3) encodes the longest isoform (c). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. Sequence Note: This gene is distinct from TCF7L2 (alias TCF-4).