

Product datasheet for **SC322579**

TCF21 (NM_003206) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF21 (NM_003206) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCF21
Synonyms:	bHLHa23; POD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322579
CACGACTCTGGGAGTGGGAAACAGAGAGCCGGTTCCTCTGCTGCAGAAGTCTCGGGGT
TCCTTCTCACAACCTCTGCGAAGGGGAAAGGGTTGTGAGACCCAACAGACCCCAACTCCA
GCTCCCAGCAGGAGGTGCTGCGCCACACTCGGGAGGCCTTTGGTTTCAGGGTCTCTCT
GTCTCTCTCTCACCTCTTCTCGCTTTCTGTCTCTGTCTCTCTCTCTCTCTCTCTCC
CTCGTCCACTCCCCAAACATGTCCACCGGCTCCCTCAGCGATGTGGAGGACCTCAAGA
GGTGGAGATGTTGGAATGTGACGGGTTGAAAATGGATTGAAACAAGGAATTTGTACTTC
CAACGAGAGCACCAGGAGAGCTCCAACCTGCGAGAATGGGTCTCCCCAGAAGGGCCGCG
CGGCTGGGCAAGAGGAGGAAGGCGCCACCAAGAAGAGCCCCCTGAGCGGGTTCAGCCA
GGAGGGGAAGCAGGTCCAGCGCAACGCCCAACGCGGAGAGCGGGCCCGCATGCGAGT
GCTGAGCAAGGCCTTCTCCAGACTCAAGACCACCTGCCCTGGGTGCCCCCGACACCAA
GCTCTCCAAGCTGGACACGCTCAGGCTGGCGTCCAGCTACATCGCCCACTTGAGGCAGAT
CCTGGCTAACGACAAATACGAGAACGGGTACATTCACCCGGTCAACCTGACGTGGCCCTT
TATGGTGGCCGGGAAACCCGAGAGTGACCTGAAAGAAGTGGTGACCGCGAGCCGCTTATG
TGGAACCACCGCGTCTGACCTTGGAGTTTGGTACCTGGAGCGAGAGCTTCTCCGCCCTT
CCACCAACCCACAGGCCGCTTCGCGGGTGGAGCCCTCTGCTGGCCATGGAGGAAGGAT
CCCCTAGGCTGGTCCCAGTGGAGAAGCTGCTCTGCCAGGTGTGCTCTCTGTGCAAGT
AGTGACCTCATTACCAAGGGTGGCGACCACATTACCAAGCGCAATTCCTCATTCCAA
GGGTGAGAACTTCGGTGAATTCACCTGTCTATTTGCACATGGAGGACTTTTCAAG
ATGTCAGGATGCCCTTCCATCACCCACACCGCCACCCCAACTTGACTTTCAAGAACAC
ATTTCAAGCTCTGGCCAGAGTCCCGTTCCTCAAATTCATGTGTTCTCTCTTTTACCAG
AGGGATAGAGCCCATGCCTCAACCTATCCAGAGTCAAATCAAAGAGTCCCAGTGTGAT
TCAATTGTTTGCCTTTCACGTTTCGAAATTTTCAATCTCCCACTCACGTTTTTACAAA
ACGAATGCTCTAAATTCGAGGATTCAGGCAGGCCATCCATAGAGAAATAACTTTTTCT
TGCTCATTCCCTACAACCCCAATCTATACATGGATTTTTAGAAAGTCTTCATGGCTATC
TATAGTCCCTACCAATAATTTGAAGCCTTTGCTTTAGGCAGGAGGCATGTGGCTATGAA
TAGGGAACACGTAGATTTGACCCTGGTTCTGCATCCAACCTAGCTGTTTCTGAAAGAGCC



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TGGATCCTCAGTTTTCCCATCTCTGCAAGCAGGGATAACGGTAATGAGAATGATAATAAT
 CATTATATGCAGACCTTCTCTTTCATCTTACAGAGGCTTAGTGAGGCTTAAATGAGATT
 ATATCTGTAAAATCCCTTGGTAAAGGAAAAGCTCCGTGAAAATGTCAGTTACTTTTACTA
 AGTGGCGGGTAGTGAATTATCTGTGCCTAGACCCAACTGAAAGTGTCTCAGGCAGGAAG
 TTCCAAGGGATGTATGTTATAGCATCCAGGCAATGATCTTTTTTTTTCCACGAACTAAA
 ATACCTCTTTTTGGTATCTATTGACTCTTCTCTCTCTCTTCTGTCTCTTTTACCTT
 GCACCTCTCCCTAATGCTCTCTAAATTTGTCCAGAGCTTTCTTTTTCTAGAAAATCCAGA
 GAGCAAAGTCAGAGCCTGGCACCTGCAGATAGGATAACACTGGTGTCTGATGGTGAGGCT
 GCCCAGTCCCATCAGGAGCCTCAGCCAAGGAGGGGCTGGGCACACTCAGGTCCCATGG
 TTGTCCATTGAATGGAGTGAGGATCAAGGTGGGAATGACTGGGTGGTGGCTGCCACTAGC
 CCAGGAACATGACAACGTGACCACACCACATGCCTCCAACACACACCCACAGTCTAAA
 CATCTCTCTTCTCAGTGAGCCCTTCTCCATTCCAGATCATCAGCACACCCACACCCAC
 CATAGGTCTCTTCTCCGGTCTCCAGAAAGGGTAAAATCCCAGCCTACCCTGCTCCA
 GCTTCAGCCCAGGTAGTTGGTGTGTCTCAATATGAATAGGGGGTGAAGTCTTCATAGAA
 AGAATGGGGAACCTCCTTGGCCTCAAGCCAGTATAGTTTGAAGTTGGGGTTCGGGGATG
 TTAAGGGTGGGGAGTATCCTGCCTGTGACTCTAGGTTATGAAAATCTTTAGAAAGGTG
 CTTTTAGAAAAGAACAGGAGAACAACCAAAGCAGCTTACAGACGCCTGAACGGAGAAATGA
 AGTGTTCAGTAAGCGAGTCTGCAAGTTCTCAGAAGCAGACAGATATCCAATCTGGACT
 GCAGCCAGGGAAGTCTCTCTCTCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
 TATGACTTCACAAGCAACTCAGGATCATTCTAGCAGGCTTTCCACTGTCAAACAGAGAC
 TTCATTCTAAAAAGAGAAGTGATAAACAGAGCTCCAGCTCTGCTAGCTCTATATTTTAC
 TGATTAGTGGAAAGCACTGACCAAGGAGACTTTTAAGCCAGTGGTTCTTCAGAATCACCT
 AGATGCTCCACCCTCCAGAGATCCAGAGTCCAGGAGTCTGAAGTGGGGCCCCAGGTGAT
 GTCATTGCTGCTGGTCCCAGGACCACATTTTAACAATCAATGTTTTTCAGATGTCTCATGA
 GGAACACTACTTAATGCAAGTGGGAAAGAAAATATTTTCAGAGGAGAATTTTTTCTAAAGA
 AGCTGCATATTCTGGACTCTAATTTAGTTTAATCACTCCAGGATGGCACGCAGGATTCC
 TAATTCTTAAATGCCATTGACTGACTTCAAATCACTTGTCTTCAGAAAATAAAAGAT
 TTGTTCCACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_003206
- 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_003206.2](#), [NP_003197.2](#)

RefSeq Size: 1274 bp

RefSeq ORF: 540 bp

Locus ID: 6943

UniProt ID: [O43680](#)

Cytogenetics: 6q23.2

Domains: HLH

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: TCF21 encodes a transcription factor of the basic helix-loop-helix family. The TCF21 product is mesoderm specific, and expressed in embryonic epicardium, mesenchyme-derived tissues of lung, gut, gonad, and both mesenchymal and glomerular epithelial cells in the kidney. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 3' UTR compared to variant 1. Variants 1 and 2 encode the same protein.