

Product datasheet for **SC118134**

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:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118134 sequence for NM_003206 edited (data generated by NextGen Sequencing)

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ATGTCCACCGGCTCCCTCAGCGATGTGGAGGACCTTCAAGAGGTGGAGATGTTGGAATGT  
GACGGGTTGAAAATGGATTCTGAACAAGGAATTTGTGACTTCCAACGAGAGCACCGAGGAG  
AGCTCCAAGTGCAGAAATGGGTCTCCCCAGAAGGGCCGCGGCGGCTGGGCAAGAGGAGG  
AAGGCGCCACCAAGAAGAGCCCCCTGAGCGGGGTGAGCCAGGAGGGGAAGCAGGTCCAG  
CGCAACGCGCCAACGCGCGAGAGCGGGCCCGCATGCGAGTGCTGAGCAAGGCCTTCTCC  
AGACTCAAGACCACCTGCCCTGGGTGCCCCCGACACCAAGCTCTCCAAGCTGGACACG  
CTCAGGCTGGCGTCCAGCTACATCGCCCACTTGAGGCAGATCCTGGCTAACGACAATAC  
GAGAACGGGTACATTCACCCGGTCAACCTGACGTGGCCCTTTATGGTGGCCGGGAAACCC  
GAGAGTGACCTGAAAGAAGTGGTGACCGCGAGCCGCTTATGTGGAACCACCGCGTCTGA
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Clone variation with respect to NM_003206.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003206 unedited CCCCCGTGAGATTTGTATACGACTTATATAGGCGGCCGCGAAATCGGCACCAGGTACGGC CACGACTATGGGAGTGGGAAACAGAGAGCCGGTCTCTGTTGCAGAAGCCCTCGGGGA TCCTTCTCACAACCTCTGCGAAGGGGAAAGGTTGTGAGACCCAACCAGACCCCAACTCCA GCTCCCAGCAGGAGGTGGCTGCCACACTCGGGAGGCCTTTGGTTTCAGGGTCTCTCT GTCTCTCTCACCCCTTCTCGCTTTCTGTCTCTGTCTCTCTCTCTCTCTCTCTCTCTCC CTCGTCCACTCCCCAAACATGTCCACCGGCTCCCTCAGCGATGTGGAGGACCTTCAAGA GGTGGAGATGTTGGAATGTGACGGTTGAAAATGGATTGGAACAAGGAATTTGTGACTTC CAACGAGAGCACCGAGGAGAGCTCCAACCTGCGAGAATGGGTCTCCCCAGAAGGGCCGCGG CGGCCTGGGCAAGAGGAGGAAGGCGCCACCAAGAAGAGCCCTGAGCGGGGTACGCCA GGAGGGGAAGCAGGTCCAGCGCAACGCCGCCAACGCGGAGAGCGGGCCCGCATGCGAGT GCTGAGCAAGGCCTTCTCCAGACTCAAGACCACCCTGCCCTGGGTGCCCCCGACACCAA GCTCTCAAGCTGGACACGCTCAGGNNCTGGCGTCCAGCTACATCGCCACTTGAGGGCA GATCCTGGCTAACGACACATACGACGAACGGGTACATTACCCGGTCACNCTGACGTGGC CCTTNNATGGTGGCCGGACACCCGAGAGTGACCTGCAAGCAAGTGGTGACCGCGAGCCG CTATGATGACCCACCGCTGTGCCCTTTGAGNGCCTAGTCTCGGCAAGCGCGCTCCTG GGGGAGGAGTGGCCCTCGGAAGGCGACCCTGGCCCTCAGTGCT
Restriction Sites:	NotI-NotI
ACCN:	NM_003206
Insert Size:	1400 bp
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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_003206.2</u> , <u>NP_003197.2</u>
RefSeq Size:	1274 bp
RefSeq ORF:	540 bp
Locus ID:	6943
UniProt ID:	<u>O43680</u>
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.