

Product datasheet for **SC125048**

TCF21 (NM_198392) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF21 (NM_198392) 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:	>NCBI ORF sequence for NM_198392, the custom clone sequence may differ by one or more nucleotides

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ATGTCCACCGGCTCCCTCAGCGATGTGGAGGACCTTCAAGAGGTGGAGATGTTGGAATGTGACGGTTGA  
AAATGGATTGCAACAAGGAATTTGTGACTTCCAACGAGAGCACCGAGGAGAGCTCCAAGTGCAGAAATGG  
GTCTCCCCAGAAGGGCCGCGCGGCTGGGCAAGAGGAGGAAGGCGCCACCAAGAAGAGCCCCCTGAGC  
GGGGTCAGCCAGGAGGGGAAGCAGGTCCAGCGCAACGCCCAACGCGGAGAGCGGGCCCGCATGCGAG  
TGCTGAGCAAGGCCTTCCAGACTCAAGACCACCTGCCCTGGGTGCCCCCGACCAAGCTCTCCAA  
GCTGGACACGCTCAGGCTGGCGTCCAGCTACATCGCCACTTGAGGCAGATCCTGGCTAACGACAAATAC  
GAGAACGGGTACATTCACCCGTCAACCTGACGTGGCCCTTTATGGTGGCCGGAAACCCGAGAGTGACC  
TGAAGAAGTGGTGACCGGAGCCGCTTATGTGAACCACCGCGTCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_198392 unedited CCCCCCGCCCCCCCCCTTTTCTCCCCCCCCCGTTTCAGNATTTGTNATACGACTCAC TATAGGCGGCCGCGNAATTCGCACCAGCCAGACTCTGGGAGTGGGAAACAGAGAGCCG GTTCTCTGCTGCAGAAGTCTCGGGGTTCTTCTCACAACCTCTGCGAAGGGGAAAGGT TGTGAGACCCAACCAGACCCCAACTCCAGCTCCCAGCAGGAGGTGGTGCGCCACACTCG GGAGGCCCTTTGGTTTCAGGGTCTCTGTCTCTCTCACCCTTCTCTCGCTTTCTCT GTCTCTGTCTCTCTCTCTCTCTCTCTCTCCCTCGTCCACTCCCCAAACATGTCCACGGCT CCTCAGCGATGTGGAGACCTTCAAGAGTGGAGATGTTGGAATGTGACGGGTTGAAAA TGGATTGGAACAAGGAATTTGTGACTTCCAACGAGAGCACCGAGGAGAGCTCCAACCTGCG AGAATGGGTCTCCCAGAAGGGCCGCGCGGCCTGGGCAAGAGGAGGAAGGCGCCACCA AGAAGAGCCCCCTGAGCGNGTCAGCCAGGAGGGGAAGCAGGTCCAGCGCAACGCCGCCA ACGCGCGAGAGCGGGCCCGCATGCGAGTCTGAGCAAGGCCTTCTCCAGACTCAAGACCA CCCTGCCCTGGGTGCCCCCGACACCAAGCTCTCAAGCTGGACACGCTCCAGCTGGCGT TCAGCTACATCGNCCACTTGAGGCAGATCTGGCTAACGACAAAACGAGAACCAGTACC ATTCACCCGGTACCCTGACGTGGCCCTTATGGTGGCCCGGAAACCCCGAGAGTGACC TGAANGAAAATGTGACCGCCAGCCGCTNATGTGGAACCCACCGCTCCTGACTTTGNAGG TGCCAGTCTTGGAAAAGCCCCGCTCCCGGGGGAGACCGCCCCGGAAGGCGACCCCTGG CCTCAGGGCTCTCTTTCTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_198392
Insert Size:	3000 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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: [NM_198392.1](#), [NP_938206.1](#)

RefSeq Size: 3231 bp

RefSeq ORF: 540 bp

Locus ID: 6943

UniProt ID: [O43680](#)

Cytogenetics: 6q23.2

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 (1) represents the longer transcript. Variants 1 and 2 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.