

Product datasheet for **MC202295**

Tcf21 (NM_011545) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tcf21 (NM_011545) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tcf21
Synonyms: bHLHa23; capsulin; epc; epicardin; Pod-1; Pod1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC053525 sequence for NM_011545
TTCACCTCCGTTAAGGCCAGGACTCCAGTGGTGGGAGATAGAGCACTGGTTCCCTGTGCGGGATCC
CTTGATCGTTTTCCAGACTCTGTAAGGGAAAGCTGGGGACGGGACTGCCAGATCCCACCTCAAAC
CCAACACACGAAGTGCCAGCTCCAACTTTTGAGACCCTTTCGTTTCCGTTTCAGCGTCTCTCTCCCT
CCCTCCCTCCACCTCTCTAAACATGTCCACTGGCTCCCTCAGCGATGTAGAAGACCTTCAAGAGGTGGAG
ATGCTGGACTGTGACTCCCTGAAAGTGGACTCCAACAAGGAGTTTGAACCTCCAACGAGAGCACCAGG
AGGGCTCCAACGCGAGAACGGGTCTCCACAGAAGGGTCCGCGGTGGCCTAGGCAAGAGGAGGAAGGCGCC
CACTAAGAAAAGCCCGCTCAGCGGGTCCAGCCAGGAGGGCAAGCAGGTCCAGCGCAACGCGGCAATGCT
CGTGAGCGGGCCCGCATGCGGGTCTGAGCAAGGCCTTCTCCAGGCTCAAGACCACCTGCCCTGGGTGC
CCCCGGACACCAAGCTCTCCAAGCTGGACTCTCAGGCTGGCGTCCAGCTACATCGCTCACTTAAGGCA
GATCCTGGCCAACGACAAGTACGAGAACGGTTACATTCACCCAGTCAACCTGACGTGGCCCTTTATGGTG
GCCGGCAAACCAGAGAATGACCTGAAGGAAGTGGTGACCGCCAACCGCTTGTGTGGAACACAGCATCCT
GACCTTGAGGTGCGAGTCTGGGAACCGTGAGCTCTGGGGCAGTGGGCCGGCAAGGGTGACGACCCTG
CCCTTCCCTTCCCTCTGCTGGTGCCTTGCATCGCTCCTCTCCCTATCCCACCCCGCAAGAACACTTA
ACTGCGACGAGGAGATTCGTTTCCAAACCAAAGGAGACCAACTGTACTTACCGATTCTCATCTATTTAAC
TTGATTAACCTTGCATGAATGACTGCAAGCCTGGCTGGTCCAAGTGAATATGTAATTATATATATAT
ATTATATATAAATAGATAAGAAGAGCCTATCAATGTGTATCTTTTGTACAATATGTTGTAATATATATAT
CATAGAATAGCTGACTTTGACAGTCACATTTATAAAAATAAGTCACTCGAAGAAATATATTTTTTCAAAC
AGGTTTTGCTACTTCCGAAAATAAATCTTCTTATATTGAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_011545
Insert Size: 540 bp



[View online »](#)

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: [BC053525](#), [AAH53525](#)

RefSeq Size: 1246 bp

RefSeq ORF: 540 bp

Locus ID: 21412

UniProt ID: [O35437](#)

Cytogenetics: 10 10.33 cM

Gene Summary: Involved in epithelial-mesenchymal interactions in kidney and lung morphogenesis that include epithelial differentiation and branching morphogenesis. May be involved in the organogenesis of the spleen and heart and in cardiac and coronary artery development. May function in the development and sex differentiation of gonad via transcriptional regulation of AD4BP/SF-1.[UniProtKB/Swiss-Prot Function]