

Product datasheet for **RC220002**

TCF21 (NM_198392) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TCF21 (NM_198392) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TCF21
Synonyms: bHLHa23; POD1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC220002 representing NM_198392
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCACCGGCTCCCTCAGCGATGTGGAGGACCTTCAAGAGGTGGAGATGTTGGAATGTGACGGTTGA
AAATGGATTCGAACAAGGAATTTGTGACTTCCAACGAGAGCACCGAGGAGAGCTCCAACCTGCGAGAATGG
GTCTCCCCAGAAGGGCCGCGGCCCTGGGCAAGAGGAGGAAGGCCCCACCAAGAAGAGCCCCCTGAGC
GGGTCAGCCAGGAGGGGAAGCAGGTCCAGCGCAACGCCCAACGCGGAGAGCGGGCCCGATGCGAG
TGCTGAGCAAGGCCTTCCAGACTCAAGACCACCTGCCCTGGGTGCCCCCGACACCAAGCTCTCCAA
GCTGGACACGCTCAGGCTGGCGTCCAGCTACATCGCCACTTGAGGCAGATCCTGGCTAACGACAAATAC
GAGAACGGGTACATTCACCCGGTCAACCTGACGTGGCCCTTTATGGTGGCCGGGAAACCCGAGAGTGACC
TGAAAGAAGTGGTGACCGCGAGCCGCTTATGTGGAACCACCGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220002 representing NM_198392
Red=Cloning site Green=Tags(s)

MSTGSLSDVEDLQEVEMLECDGLKMDSNKEFVTSNESTEESNCENGSPQKGRGGLGKRRKAPTKKSPLS
GVSQEGKQVQRNAANARERARMRVLKAFSRLKTTLPWVPPDTKLSKLDLRLASSYIAHLRQILANDKY
ENGYIHPVNLWPFMVAGKPESDLKEVVTASRLCGTTAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6327_b12.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198392

ORF Size: 537 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](#)

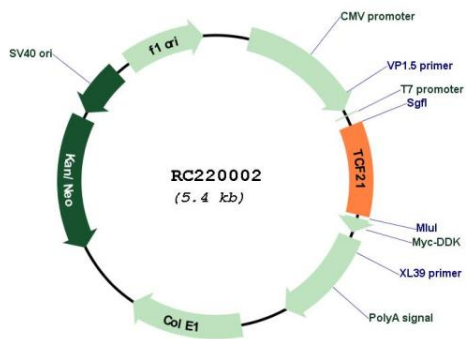
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

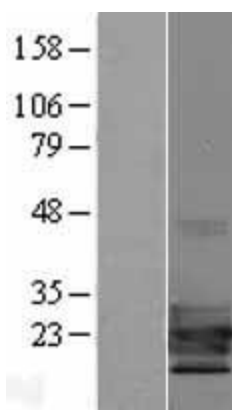
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_198392.3
RefSeq Size:	3231 bp
RefSeq ORF:	540 bp
Locus ID:	6943
UniProt ID:	O43680
Cytogenetics:	6q23.2
Protein Families:	Druggable Genome, Transcription Factors
MW:	19.5 kDa
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]

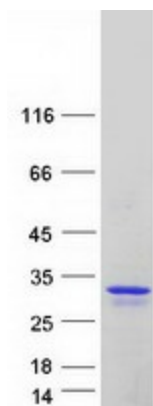
Product images:



Circular map for RC220002



Western blot validation of overexpression lysate (Cat# [LY405044]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220002 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TCF21 protein (Cat# [TP320002]). The protein was produced from HEK293T cells transfected with TCF21 cDNA clone (Cat# RC220002) using MegaTran 2.0 (Cat# [TT210002]).