

Product datasheet for **RG220002**

TCF21 (NM_198392) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TCF21 (NM_198392) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TCF21
Synonyms: bHLHa23; POD1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220002 representing NM_198392
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCACCGCTCCCTCAGCGATGTGGAGGACCTTCAAGAGGTGGAGATGTTGGAATGTGACGGTTGA
AAATGGATTGAACAAGGAATTTGTGACTTCCAACGAGAGCACCGAGGAGAGCTCCAACGCGAGAATGG
GTCTCCCCAGAAGGGCCGCGCGCCTGGGCAAGAGGAGGAAGGCCCCACCAAGAAGAGCCCCCTGAGC
GGGTCAGCCAGGAGGGGAAGCAGGTCCAGCGCAACGCCCAACGCGGAGAGCGGGCCCGCATGCGAG
TGCTGAGCAAGGCCTTCTCCAGACTCAAGACCACCTGCCCTGGGTGCCCCCGACACCAAGCTCTCAA
GCTGGACACGCTCAGGCTGGCGTCCAGCTACATCGCCACTTGAGGCAGATCCTGGCTAACGACAAATAC
GAGAACGGGTACATTCACCCGGTCAACCTGACGTGGCCCTTTATGGTGGCCGGGAAACCCGAGAGTGACC
TGAAAGAAGTGGTGACCGCGAGCCGCTTATGTGGAACCACCGCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220002 representing NM_198392
Red=Cloning site Green=Tags(s)

MSTGSLSDVEDLQEVEMLECDGLKMDSNKEFVTSNESTEESNCENGSPQKGRGGLGKRRKAPT KKSPLS
GVSQEGKQVQRNAANARERARMVLSKAFSRLKTTLPWVPPDTKLSKLDLRLASSYIAHLRQILANDKY
ENGYIHPVNLWPFMVAGKPESDLKEVVTASRLCGTTAS

TRTRPLE - GFP Tag - V

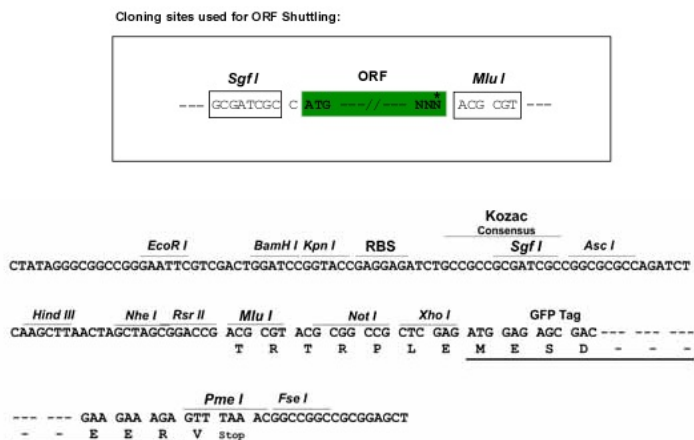
Chromatograms: https://cdn.origene.com/chromatograms/ja1852_b08.zip



[View online »](#)

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

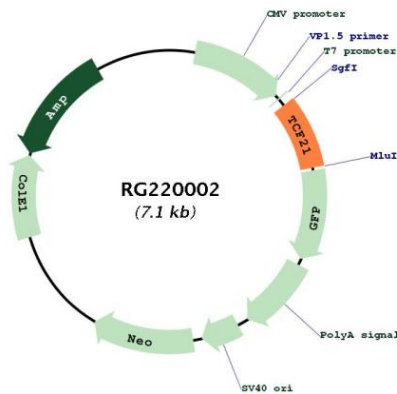
UniProt ID: [O43680](#)

Cytogenetics: 6q23.2

Protein Families: Druggable Genome, Transcription Factors

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 RG220002