

Product datasheet for **RG206570**

TCF21 (NM_003206) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TCF21 (NM_003206) 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: >RG206570 representing NM_003206
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCACCGGCTCCCTCAGCGATGTGGAGGACCTTCAAGAGGTGGAGATGTTGGAATGTGACGGGTTGA
 AAATGGATTCGAACAAGGAATTTGTGACTTCCAACGAGAGCACCGAGGAGAGCTCCAACGCGAGAATGG
 GTCTCCCCAGAAGGGCCGCGCGCCTGGGCAAGAGGAGGAAGGCGCCACCAAGAAGAGCCCCCTGAGC
 GGGGTAGCCAGGAGGGGAAGCAGGTCCAGCGCAACGCCCAACGCGGAGAGCGGGCCCGCATGCGAG
 TGCTGAGCAAGGCCTTCTCCAGACTCAAGACCACCTGCCCTGGGTGCCCCCGACACCAAGCTCTCCAA
 GCTGGACACGCTCAGGCTGGCGTCCAGCTACATCGCCACTTGAGGCAGATCCTGGCTAACGACAAATAC
 GAGAACGGGTACATTCACCCGGTCAACCTGACGTGGCCCTTTATGGTGGCCGGGAAACCCGAGAGTGACC
 TGAAGAAGTGGTGACCGCGAGCCGCTTATGTGAACCACCGCGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206570 representing NM_003206
 Red=Cloning site Green=Tags(s)

MSTGSLSDVEDLQEVEMLECDGLKMDSNKEFVTSNESTEESNCENGSPQKGRGGLGKRRKAPT KKSPLS
 GVSQEGKQVQRNAANARERARMVLSKAFSRLKTTLPWVPPDTKLSKLDLRLASSYIAHLRQILANDKY
 ENGYIHPVNLWPFMVAGKPESDLKEVVTASRLCGTTAS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_003206

ORF Size: 537 bp

OTI Disclaimer: 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_003206.4](#)

RefSeq Size: 1274 bp

RefSeq ORF: 540 bp

Locus ID: 6943

UniProt ID: [O43680](#)

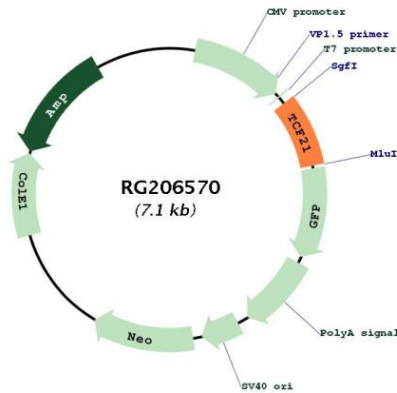
Cytogenetics: 6q23.2

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]

Product images:



Circular map for RG206570