

Product datasheet for MR201596

Tcf21 (NM_011545) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Tcf21 (NM_011545) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Tcf21

Synonyms: bHLHa23; capsulin; epc; epicardin; Pod-1; Pod1

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >MR201596 representing NM_011545

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCCACTGGCTCCCTCAGCGATGTAGAAGACCTTCAAGAGGTGGAGATGCTGGACTGTGACTCCCTGA
AAGTGGACTCCAACAAGGAGTTTGGAACTTCCAACGAGAGCACCGAGGAGGGCTCCAACTGCGAGAACGG
GTCTCCACAGAAGGGTCGCGGTGGCCTAGGCAAGAGGAGGAGGCCCCACTAAGAAAAGCCCGCTCAGC
GGGGTCAGCCAGGAGGGCAAGCAGGTCCAGCGCAACGCGGCCAATGCTCGTGAGCGGGCCCGCATGCGGG
TGCTGAGCAAGGCCTTCTCCAGGCTCAAGACCACCCTGCCCTGGGTGCCCCCGGACACCAAGCTCTCCAA
GCTGGACACTCTCAGGCTGGCGTCAACATCGCTCACTTAAGGCAGATCCTGGCCAACGACAAGTAC
GAGAACGGTTACATTCACCCAGTCAACCTGACGTGGCCCTTTATGGTGGCCGGCAAACCAGAGAATGACC

TGAAGGAAGTGGTGACCGCCAACCGCTTGTGTGGAACTACAGCATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201596 representing NM_011545

Red=Cloning site Green=Tags(s)

MSTGSLSDVEDLQEVEMLDCDSLKVDSNKEFGTSNESTEEGSNCENGSPQKGRGGLGKRRKAPTKKSPLS GVSQEGKQVQRNAANARERARMRVLSKAFSRLKTTLPWVPPDTKLSKLDTLRLASSYIAHLRQILANDKY

ENGYIHPVNLTWPFMVAGKPENDLKEVVTANRLCGTTAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



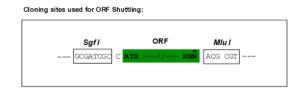
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

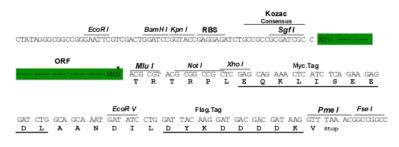
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM 011545

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. <u>More info</u>

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: <u>NM 011545.2</u>



RefSeq Size: 1240 bp

 RefSeq ORF:
 540 bp

 Locus ID:
 21412

 UniProt ID:
 035437

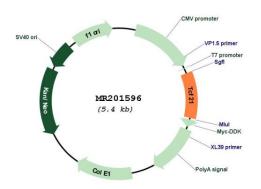
Cytogenetics: 10 10.33 cM MW: 20.1 kDa

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]

Product images:



Circular map for MR201596