

Product datasheet for **RC222408**

TFEC (NM_012252) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TFEC (NM_012252) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TFEC
Synonyms: bHLHe34; hTFEC-L; TCFEC; TFE-C; TFEC-L; TFEC-L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC222408 representing NM_012252
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCTTGATCATCAGATCATCAATCCAACCTTTAAATGGTCACAACCTGCAGTGCCAAGTGGTGGC
CTCTTGTGCAGCATGCACACAACTCTGGACAGTGATGCTGGCCTCACAGAAAACCACTACCAAGTT
ACTAGCTATTGGGAAAGAAGATGACAATGCACAATGGCATATGGAGGACGTTATTGAGGATATAATCGGT
ATGGAATCAAGTTTTAAAGAGGAAGGAGCAGACTCTCCTCTGCTAATGCAAAGAACATTATCTGGAAGTA
TTTTGGATGTGTATAGCGGTGAACAAGGAATTTACCAATTAACATGGGGCTTACAAGTGCTTCTTGTC
AAGTAGTCTACCAATGAAAAGAGAAATTACAGAACTGACTAGAGCTTTAGCAAAAGAGAGACAAAA
AAGGACAACCACAACCTCATTGAAAAGAAGAAGGTATAATATTAATTACCGAATCAAGGAGCTTGGCA
CTCTTATCCAAAGTCTAATGATCCTGATATGCGCTGGAACAAAGGAACCATTCTAAAAGCATCAGTGGA
GTACATCAAGTGGCTACAAAAAGAACAACAGAGAGCCCGAGAATTGGAACACAGACAGAAGAAATTAGAG
CAGGCTAACAGGCGACTTCTACTTCGGATTGAGAACTAGAAATTCAGGCTCGTACTCATGGTCTGCCAA
CCCTGGCTTCACTTGGCACGGTTGATTTAGGTGCTCATGTCACCAACAGCAGAGCCATCCTGAGCAGAA
TTCAGTAGACTATTGCCAACACTGACTGTGTCTCAGGGGCCAAGCCCTGAGCTCTGTGATCAAGCTATA
GCCTTTTCTGATCCTTTGTCATACTTACAGATTTATCATTAGTGTGCTGATTGAAAGAGGAACAAAGAT
TGGATGGCATGCTATTGGATGACACAATCTCTCCATTTGGAACAGATCCTCTGCTATCTGCCACTTCCC
TGCAAGTTTCAAAGAAAGCAGTAGGAGAAGTAGCTTTAGCTCAGATGATGGTGATGAATTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222408 representing NM_012252
Red=Cloning site Green=Tags(s)

MTLDHQIINPTLKWSQPAVPSGGPLVQHAHTTLDSDAGLTENPLTKLLAIGKEDDNAQWHMEDVIEDIIG
 MESSFKEEGADSPLLMQRTLSGSILDVYSGEQGISPINMGLTSASCPSSLPMKREITETDTRALAKERQK
 KDNHNLIERRRRYNINYRIKELGTLIPKSNPDMRWKGTILKASVEYIKWLQKEQQRARELEHRQKKLE
 QANRRLLLRIQELEIQARTHGLPTLASLGTVDLGAHVTKQQSHPEQNSVDYCYQLTVSQGPSPELCDQAI
 AFSDPLSYFTDLFSAAALKEEQRLDGMLLDDTISPFGTDPILLSATSPAVSKESSRRSSFSSDDGDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4725_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012252

ORF Size: 1041 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_012252.4](#)

RefSeq Size: 6631 bp

RefSeq ORF: 1044 bp

Locus ID: 22797

UniProt ID: [O14948](#)

Cytogenetics: 7q31.2

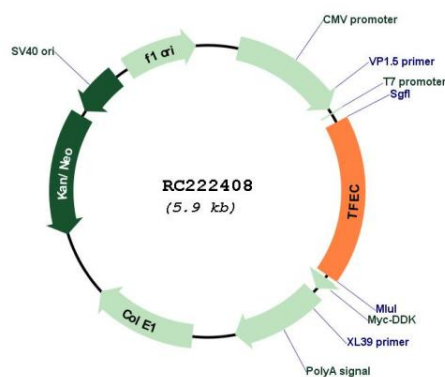
Domains: HLH

Protein Families: Druggable Genome, Transcription Factors

MW: 38.6 kDa

Gene Summary: This gene encodes a member of the microphthalmia (MiT) family of basic helix-loop-helix leucine zipper transcription factors. MiT transcription factors regulate the expression of target genes by binding to E-box recognition sequences as homo- or heterodimers, and play roles in multiple cellular processes including survival, growth and differentiation. The encoded protein is a transcriptional activator of the nonmuscle myosin II heavy chain-A gene, and may also co-regulate target genes in osteoclasts as a heterodimer with microphthalmia-associated transcription factor. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RC222408