

## Product datasheet for **RC232366**

### TFEC (NM\_001244583) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TFEC (NM_001244583) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TFEC
Synonyms:	bHLHe34; hTFEC-L; TCFEC; TFE-C; TFEC-L; TFEC-L
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232366 representing NM_001244583 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATGAAGGAGAAAGAGAAAACCATTGCTATTGTGAAGGTTATAGACACTTCAAAGTTAAACTGTTAT  
CTGGAAGTATTTGGATGTGTATAGCGGTGAACAAGGAATTTACCAATTAACATGGGGCTTACAAGTGC  
TTCTTGCCAAGTAGTCTACCAATGAAAAGAGAAATTACAGAACTGACACTAGAGCTTTAGCAAAAGAG  
AGACAAAAAAGGACAACCACAACCTCATTGAAAGAAGAAGAAGGTATAATTAATTACCGAATCAAGG  
AGCTTGGCACTCTTATTCCAAAGTCTAATGATCCTGATATGCGCTGGAACAAAGGAACCATTCTAAAAGC  
ATCAGTGGAGTACATCAAGTGGCTACAAAAAGAACAACAGAGAGCCCGAGAATTGGAACACAGACAGAAG  
AAATTAGAGCAGGCTAACAGGCGACTTCTACTTCGGATTGAGGAACTAGAAATTCAGGCTCGTACTCATG  
GTCTGCCAACCTGGCTTCACTTGGCACGGTTGATTTAGGTGCTCATGTCACCAACAGCAGAGCCATCC  
TGAGCAGAATTCAGTAGACTATTGCCAACACTGACTGTGTCTCAGGGGCCAAGCCCTGAGCTCTGTGAT  
CAAGCTATAGCCTTTTCTGATCCTTTGTCATACTCACAGATTTATCATTTAGTGCTGCATTGAAAGAGG  
AACAAAGATTGGATGGCATGCTATTGGATGACACAATCTCCATTTGGAACAGATCCTCTGCTATCTGC  
CACTTCCCTGCAGTTTCCAAAGAAAGCAGTAGGAGAAGTAGCTTTAGCTCAGATGATGGTGATGAATTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001244583.1</a> , <a href="#">NP_001231512.1</a>
<b>RefSeq Size:</b>	6309 bp
<b>RefSeq ORF:</b>	843 bp
<b>Locus ID:</b>	22797
<b>UniProt ID:</b>	<a href="#">O14948</a>
<b>Cytogenetics:</b>	7q31.2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	32 kDa
<b>Gene Summary:</b>	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]