

## Product datasheet for **MC217580**

### **Tfeb (NM\_011549) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tfeb (NM_011549) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tfeb
Synonyms:	bHLHe35; Tcfcb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC217580 representing NM\_011549  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTCAGCTCGCTCAGTGGTCTTGGCAATCCCTTCTGCCCGGACTCAGTTCTCCTGTGCACAAT  
 GGGAGCAACCATACTTATGCCAGCCTGTGCTTAAAGACTACGAAGATGATGAATACTTTCATGGGCCTGTC  
 TCCCTCGACTACAGGGAGCCGAACCAACAGCTGCCATGGCGTCACGCATCGGGCTGCCATGCAGCTC  
 ATGCGGGAGCAGGCCAGCAGGAGGAGCAGCGAGAGCGCATGCAGCAGCAGGCTGTCATGCATTATATGC  
 AACAGCAGCAGCAGCAGCAGCAGCTGGTGGGCCCCACCCAGCCATCAACACCCTGTCCACTT  
 CCAGTCGCCCCGCTGTGCCGGGGAGGTGCTGAAGGTGCAGTCTACCTGGAGAACCCACCTCTAC  
 CACCTGCAACAGTCCCAGCATCAGAAGTTTCGGAAGTATCTGTCTGAGACCTATGGGAACAAGTTTGCTG  
 CCCACGTGAGCCAGCCAAGGTTCCCGAAGCCTGCCAGCAGCATCCCAGGGGTGCGGGCTGGACA  
 CGTACTGTCCACCTCGGCCGGCAACAGTCTCCAACAGTCCCATGGCCATGCTACATATCAGCTCCAAC  
 CCCGAGAAAGAGTTTGTATGATGTCATTGACAACATTATGCGCCTGGACAGCGTGTGGGTACATCAACC  
 CTGAGATGCAGATGCCTAACACGCTGCCCTGTCTAGCAGCCACCTGAACGTGTACAGCGGTGACCCCCA  
 GGTCACAGCCTCCATGGTGGGTGTACCCAGCAGCTCCTGCCCTGCCGACCTGACTCAGAAGCGAGAGCTA  
 ACAGATGCTGAGAGCAGAGCCCTGGCCAAGGAGCGGCAGAAGAAAGACAATCACAACTAATTGAGAGAA  
 GACGCAGGTTCAACATCAATGACCGGATCAAGGAGCTGGGAATGCTGATCCCCAAGGCCAACGACCTGGA  
 CGTGGCTGGAACAAAGGCACCATCCTCAAGGCCTCTGTGGATTACATCCGAGGATGCAGAAGGACCTG  
 CAGAAGTCCCGGAGCTGGAGAACCCTCCCGGCCTGGAGATGACTAACAAGCAGCTCTGGCTCCGCA  
 TCCAGGAGCTGGAGATGCAGGCACGCTGCACGGCCTCCCACCACCTCGCCGTGGGTGTGAATATGGC  
 CGAGCTGGCCAGCAGGTGGTGAAGCAAGAGTTGCCAGTGAGGATGGCCAGGGGAGCGCTGATGCTG  
 GGGCCTGAGGTCCCTGAGCCTGAGCAAATGCCGCTCTTCTCCCGAGGCTCCGCTGCCCTCGGCCGCC  
 AGCCACAGTCTCCGTTCCATCACCTGGACTTCAGCCATGGCCTGAGCTTTGGGGTGGGGCGACGAGGG  
 GCCACAGGTTACCCGATACCCTGGGGACAGAGCAGGCTCCCCATTCCCCAACCTGTCCAAGAAGGAT  
 CTGGACTTAATGCTCCTAGATGACTCCCTGCTCCCCCTGGCCTGACCCCTCTTTTCTACCATGTCTC  
 CTGAGGCCTCCAAGGCCAGCAGCCGCCGAGCAGCTTCAGCATGGAGGAGGTGATGTTCTGTGA

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_011549

**Insert Size:** 1605 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](mailto: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](#)

<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>	<u><a href="#">BC064789</a></u> , <u><a href="#">AAH64789</a></u>
<b>RefSeq Size:</b>	2298 bp
<b>RefSeq ORF:</b>	1605 bp
<b>Locus ID:</b>	21425
<b>UniProt ID:</b>	<u><a href="#">Q9R210</a></u>
<b>Cytogenetics:</b>	17 23.99 cM
<b>Gene Summary:</b>	<p>Transcription factor that specifically recognizes and binds E-box sequences (5'-CANNTG-3'). Efficient DNA-binding requires dimerization with itself or with another MIT/TFE family member such as TFE3 or MITF. In association with TFE3, activates the expression of CD40L in T-cells, thereby playing a role in T-cell-dependent antibody responses in activated CD4(+) T-cells and thymus-dependent humoral immunity. Specifically recognizes and binds the CLEAR-box sequence (5'-GTCACGTGAC-3') present in the regulatory region of many lysosomal genes, leading to activate their expression. It thereby plays a central role in expression of lysosomal genes. Acts as a positive regulator of autophagy by promoting expression of genes involved in autophagy. Specifically recognizes the gamma-E3 box, a subset of E-boxes, present in the heavy-chain immunoglobulin enhancer. Plays a role in the signal transduction processes required for normal vascularization of the placenta. Regulates lysosomal positioning in response to nutrient deprivation by promoting the expression of PIP4P1 (PubMed:29146937). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (a).</p>