

## Product datasheet for **SC333161**

### TFEB (NM\_001271945) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TFEB (NM\_001271945) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TFEB  
**Synonyms:** ALPHATFEB; BHLHE35; TCFEB  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC333161 representing NM\_001271945.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCGTCACGCATAGGGTTGCGCATGCAGCTCATGCGGGAGCAGGCGCAGCAGGAGGAGCAGCGGGAG
CGCATGCAGCAACAGGCTGTGCATTACATGCAGCAGCAGCAGCAGCAGCAACAGCAGCAGCTCGGA
GGGCCGCCACCCCGCCATCAATACCCCGTCCACTTCCAGTCGCCACCACCTGTGCCTGGGGAGGTG
TTGAAGGTGCAGTCTACCTGGAGAATCCACATCCTACCATCTGCAGCAGTCGCAGCATCAGAAGGTG
CGGGAGTACCTGTCCGAGACCTATGGGAACAAGTTTGTGCCACATCAGCCAGCCAGGGCTCTCCG
AAACCCACCAGCCGCCTCCCCAGGGTGCAGCTGGACACGTGCTGTCTCTCCGCTGGCAACAGT
GCTCCCAATAGCCCATGGCCATGCTGCACATTGGCTCCAACCCCTGAGAGGGAGTTGGATGATGTCATT
GACAACATTATGCGTCTGGACGATGTCTTGGCTACATCAATCCTGAAATGCAGATGCCAACACGCTA
CCCCTGTCCAGCAGCCACCTGAATGTGTACAGCAGCGACCCCCAGGTCACAGCCTCCCTGGTGGCGTC
ACCAGCAGCTCCTGCCCTGCGGACCTGACCCAGAAGCGAGAGCTCACAGATGCTGAGAGCAGGGCCCTG
GCCAAGGAGCGGCAGAAGAAAGACAATCACAACCTAATTGAAAGGAGACGAAGTTCAACATCAATGAC
CGCATCAAGGAGTTGGGAATGCTGATCCCCAAGGCCAATGACCTGGACGTGCGCTGGAACAAGGGCACC
ATCCTCAAGGCCCTCTGTGATTACATCCGAGGATGCAGAAGACCTGCAAAAGTCCAGGGAGCTGGAG
AACCCTCTCGCGCCTGGAGATGACCAACAAGCAGCTCTGGCTCCGTATCCAGGAGCTGGAGATGCAG
GCTCGAGTGCACGGCCTCCCTACCACCTCCCCGTCCGGCATGAACATGGCTGAGCTGGCCAGCAGGTG
GTGAAGCAGGAGCTGCCTAGCGAAGAGGGCCAGGGGAGGCCCTGATGCTGGGGCTGAGTCCCTGAC
CCTGAGCCACTGCCAGCTCTGCCCCGCAAGCCCGCTGCCCTGCCACCCAGCCACCATCCCCATTC
CATCACCTGGACTTCAGCCACAGCCTGAGCTTTGGGGCAGGGAGGACGAGGGTCCCCGGGCTACCCC
GAACCCCTGGCGCCGGGCATGGCTCCCCATTCCCAGCCTGTCCAAGAAGGATCTGGACCTCATGCTC
CTGGACGACTCACTGCTACCGCTGGCCTCTGATCCACTTCTGTCCACCATGTCCCCGAGGCTCCAAG
GCCAGCAGCCGCCGAGCAGCTTACGATGGAGGAGGGCGATGTGCTGTA
  
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001271945  
**Insert Size:** 1431 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_001271945.1</a>
<b>RefSeq Size:</b>	2255 bp
<b>RefSeq ORF:</b>	1431 bp
<b>Locus ID:</b>	7942
<b>UniProt ID:</b>	<a href="#">P19484</a>
<b>Cytogenetics:</b>	6p21.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	52.9 kDa
<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 (4) contains an alternate 5' exon, which results in a downstream AUG start codon, compared to variant 2. The resulting isoform (1) has a shorter N-terminus, compared to isoform 2. Variants 1, 3 and 4 encode the same isoform 1.</p>