

## Product datasheet for **MC218553**

### Tfe3 (NM\_001105196) Mouse Untagged Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                      |
| Product Name:      | Tfe3 (NM_001105196) Mouse Untagged Clone |
| Tag:               | Tag Free                                 |
| Symbol:            | Tfe3                                     |
| Synonyms:          | bHLHe33; F830016E06Rik; Tcfe3; Tfe-3     |
| Vector:            | pCMV6-Entry (PS100001)                   |
| E. coli Selection: | Kanamycin (25 ug/mL)                     |
| Cell Selection:    | Neomycin                                 |



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**Fully Sequenced ORF:** >MC218553 representing NM\_001105196  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTCATGCAGCCGAGCCAGCTCGGGACGCCGTAGAGGCCAGCGCGGAGGGCCCTCGAGCCGTGTTCC  
 TGCTATTGGAAGAGCGCAGGCCAGCTGAGTCGGCCAGCTGCTCAGCCTGAATTCCTTGCTTCCGGAATC  
 CGGGATTGTTGCTGATATCGAGTTAGAAAAACATCCTCGATCCTGACAGCTTCTACGAGCTAAAAAGCCAA  
 CCCCTATCCCTCCGCTCCAGCCTCCAATATCACTGCAGGCCACACCGACCACCCAGCTACACTCTCTG  
 CGTCGTCTTTCGAGGGGCTCCCGACCCCTGCCATGTCATCTTCTTCATCACGGGTCTTGCTGCGTCA  
 GCAGCTTATGAGGGCCAGGCTCAGGAACAGGAGAGGCGTGAGCGGCGGGAACAGGCAGCGGCCGCTCCC  
 TTCCCAGCCCTGCGCCCGCTCACCAGCCATCTCTGTGATTGGCGTGTCTGCTGGTGGCCACACTGA  
 GTCGTCCACCTCTGCTCAGGTGCCAGGGAGGTACTCAAGGTTACAGCCACCTCGAGAACCCTACACG  
 CTACCACCTGCAGCAAGCTCGCCGGCAGCAGGTCAAACAGTACTTGTCTACCACACTTGGGCCAAAGCTG  
 GCTTCCCAGGCTCTACCCACACCAGGGCCTTCCAGTGCCAGCCACTTCTGCCCTGAAACTGCTC  
 ATGCCACCGGTCTACAGGCAGTCTCCTAACAGCCCCATGGCGCTGCTCACCATTGGGTCCAGCTCAGA  
 AAAGGAGCTGCCGGTGTCTGAAATCTACTTGATGTGTACAGCAGTCAGGGAGTGGCTACCCAGCTATC  
 ACCGTCAGCAATTCCTGTCCAGCTGAGCTGCCTAACATCAAACCGGAGATCTCCGAAACCGAGGCAAAGG  
 CCCTTTTGAAGGAGCGACAGAAGAAACAATCACAACCTAATTGAACGACGCAGGCGATTCAACATTAA  
 CGATAGGATCAAAGAGCTGGGCACCCTCATCCCCAAGTCCAATGATCCGGAGATGCGCTGGAACAAGGGC  
 ACCATCCTGAAGGCATCTGTGGATTACATCCGCAAATTACAGAAGGAACAGCAACGCTCCAAAGACCTGG  
 AGAGCCGCGAGCGGTCCCTGGAACAAGCCAACCGAAGCCTGCAGCTCCGGATTGAGGAGCTAGAAGTGA  
 GGCCAGATCCATGGTCTGCCAGTCCCTCCCAACCCAGGACTGCTCTCCCTAACCCAGAGTTCGGTCTCT  
 GACAGCCTCAAGCCAGAACAGCTGGACATTGAGGAGGAGGGCAGGCCATGACACAACGTTCCATGTATCGG  
 GAGGACCTGCCAGAACGCTCCTCCACAACAGCCTCCAGCACCTTCGGATGCCCTTCTGGACCTACA  
 CTTTCCCAGCGACCACTTGGGAGACCTGGGGACCCCTTCCACCTAGGGCTAGAGGACATTCTGATGGAG  
 GAGGAGGGGATGGTGGGAGGACTGTGAGGGGTGCCCTGTCCCCTGCGGGCTGCTTCTGACCCCTGCT  
 TTTCTTTCAGTATCCCGGCTGTTTCCAAGGCCAGCAGCCCGCTAGCAGCTTTCAGCATGGAAGAGGATC  
**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001105196

**Insert Size:** 1614 bp

**OTI Disclaimer:** 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).

**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\\_001105196.1](#), [NP\\_001098666.1](#)

**RefSeq Size:** 3188 bp

**RefSeq ORF:** 1614 bp

**Locus ID:** 209446

**UniProt ID:** [Q64092](#)

**Cytogenetics:** X 3.5 cM

**Gene Summary:** Transcription factor that specifically recognizes and binds E-box sequences (5'-CANNTG-3') (PubMed:16936731). Efficient DNA-binding requires dimerization with itself or with another MiT/TFE family member such as TFEB or MITF (PubMed:16936731). In association with TFEB, 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 (PubMed:16936731). Specifically recognizes the MUE3 box, a subset of E-boxes, present in the immunoglobulin enhancer (By similarity). It also binds very well to a USF/MLTF site (By similarity). May regulate lysosomal positioning in response to nutrient deprivation by promoting the expression of PIP4P1 (PubMed:29146937).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1. The encoded isoform (b) is shorter than isoform a.