

Product datasheet for **MC219219**

Tfe3 (NM_172472) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfe3 (NM_172472) 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: >MC219219 representing NM_172472
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTCATGCAGCCGAGCCAGCTCGGGACGCCGTAGAGGCCAGCGCGGAGGGCCCTCGAGCCGTGTTCC
 TGCTATTGGAAGAGCGCAGGCCAGCTGAGTCGGCCAGCTGCTCAGCCTGAATTCCTTGCTCCGGAATC
 CGGGATTGTTGCTGATATCGAGTTAGAAAAATCCTCGATCCTGACAGCTTCTACGAGCTAAAAAGCCAA
 CCCCTATCCCTCCGCTCCAGCCTCCAATATCACTGCAGGCCACACCGACCACCCAGCTACACTCTCTG
 CGTCGTCTTTCGAGGGGCTCCCGACCCTGCCATGTCATCTTCTTCATCACGGGTCTTGCTGCGTCA
 GCAGTTATGAGGGCCAGGCTCAGGAACAGGAGAGGCGTGAGCGGGGGAACAGGCAGCGGCCGCTCCC
 TCCCCAGCCCTGCGCCCGCTCACCAGCCATCTCTGTGATTGGCGTGTCTGCTGGTGGCCACACTGA
 GTCGTCCACCTCTGCTCAGGTGCCAGGGAGGTAACAAGTTCAAGCCACCTCGAGAACCCTACAGC
 CTACCACCTGCAGCAAGCTCGCCGGCAGCAGGTCAAACAGTACTTGTCTACCACACTTGGGCCAAGCTG
 GCTTCCCAGGCTCTACCCACACCAGGGCCTTCCAGTCCCGAGCCACTTCTGCCCTGAAACTGCTC
 ATGCCACCGGTCTACAGGCAGTCTCCTAACAGCCCCATGGCGCTGCTACCATTGGGTCCAGCTCAGA
 AAAGGAGATTGATGATGTCATTGATGAGATCATCAGCCTGGAGTCCAGTTACAACGATGAGATGCTCAGC
 TATCTTCCAGGAGGCACTGCAGGGCTGCAGTCCCGAGCAGCTGCCGGTGTCTGGAAATCTACTTGATG
 TGTACAGCAGTCAGGGAGTGGCTACCCAGCTATCACCGTCAGCAATTCCTGTCCAGCTGAGTGCCTAA
 CATCAAACGCGAGATCTCCGAAACCGAGGCAAAGGCCCTTTTGAAGGAGCGACAGAAGAAAGACAATCAC
 AACCTAATTGAACGACGAGGCGATTCAACATTAACGATAGGATCAAAGAGCTGGGCACCCTCATCCCCA
 AGTCCAATGATCCGGAGATGCGCTGGAACAAGGGCACCATCCTGAAGGCATCTGTGGATTACATCCGCAA
 ATTACAGAAGGAACAGCAACGCTCCAAAGACTGGAGAGCCGGCAGCGGTCCCTGGAACAAGCCAACCGA
 AGCCTGCAGTCCGGATTAGGAGCTAGAACTGCAGGCCAGATCCATGGTCTGCCAGTCCCTCCCAACC
 CAGGACTGCTCTCCCTAACACGAGTTCGGTCTCTGACAGCCTCAAGCCAGAACAGCTGGACATTGAGGA
 GGAGGGCAGGCCCTAGCACAACGTTCCATGTATCGGGAGGACCTGCCAGAACGCTCCTCCACAACAGCCT
 CCAGCACCTTCGGATGCCCTTCTGGACCTACACTTCCAGCGACCCTTGGGAGACCTGGGGGACC
 CCTTCCACCTAGGGCTAGAGGACATTCTGATGGAGGAGGAGGGGATGGTGGGAGGACTGTCAGGGGTGC
 CCTGTCCCAGTCCGGGCTGCTTCTGACCCCTGCTTTCTTTCAGTATCCCGGCTGTTTCCAAGGCCAGC
 AGCCGCCGTAGCAGTTCAGCATGGAAGAGGAGTCT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_172472
- Insert Size:** 1719 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_172472.3](#), [NP_766060.2](#)

RefSeq Size: 3293 bp

RefSeq ORF: 1719 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 (1) encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.