

Product datasheet for **MC227848**

Tfe3 (NM_001271489) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfe3 (NM_001271489) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tfe3
Synonyms:	bHLHe33; F830016E06Rik; Tcfe3; Tfe-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC227848 representing NM_001271489
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCATCTTCTTCATCACGGGTCTTGCTGCGTCAGCAGCTTATGAGGGCCAGGCTCAGGAACAGGAGA
 GCGGTGAGCGGCCGGAACAGGCAGCGGCCGCTCCCTTCCCAGCCCTGCGCCCGCTCACCAGCCATCTC
 TGTGATTGGCGTGTCTGCTGGTGCCACACACTGAGTCGTCACCTCCTGCTCAGGTGCCAGGGAGGTA
 CTCAAGGTTCAGACCCACCTCGAGAACCCTACACGCTACCACCTGCAGCAAGCTCGCCGGCAGCAGGTCA
 AACAGTACTTGTCTACCACACTTGGGCCAAGCTGGCTTCCCAGGCTCTCACCCACCACAGGGCCTTC
 CAGTGCCAGCCACTTCTGCCCTGAACTGCTCATGCCACCGTCTACAGGCAGTGTCTTAACAGC
 CCCATGGCGCTGCTCACCATTGGTCCAGCTCAGAAAAGGAGATTGATGATGTCATTGATGAGATCATCA
 GCCTGGAGTCCAGTTACAACGATGAGATGCTCAGCTATCTTCCAGGAGGCACTGCAGGGTGCAGCTCCC
 CAGCACGCTGCCGGTGTCTGAAATCTACTTGATGTGTACAGCAGTCAGGGAGTGGTACCCAGCTATC
 ACCGTCAGCAATTCCTGTCCAGCTGAGCTGCCTAACATCAAACGCGAGATCTCCGAAACCGAGGCAAAGG
 CCCTTTGAAGGAGCGACAGAAGAAAGACAATCAACCTAATTGAACGACGCGAGGCGATTCAACATTAA
 CGATAGGATCAAAGAGCTGGGCACCCTCATCCCAAGTCCAATGATCCGGAGATGCGCTGGAACAAGGGC
 ACCATCCTGAAGGCATCTGTGGATTACATCCGCAATTACAGAAGGAACAGCAACGCTCCAAAGACCTGG
 AGAGCCGGCAGCGGTCCCTGGAACAAGCCAACCGAAGCTGCAGCTCCGGATTAGGAGCTAGAAGTCA
 GGCCAGATCCATGGTCTGCCAGTCCCTCCCAACCCAGGACTGCTCTCCCTAACCCAGGATTCGGTCTCT
 GACAGCCTCAAGCCAGAACAGCTGGACATTGAGGAGGAGGGCAGGCTAGCACAACGTTCCATGTATCGG
 GAGGACCTGCCAGAACGCTCCTCCACAACAGCCTCCAGCACCTTCCGATGCCCTTCTGGACCTACA
 CTTTCCCAGCGACCACTTGGGAGACCTGGGGACCCCTTCCACCTAGGGCTAGAGGACATTCTGATGGAG
 GAGGAGGGGATGGTGGGAGGACTGTGAGGGGTGCCCTGTCCCCACTGCGGGCTGCTTCTGACCCCTGC
 TTTCTTCAGTATCCCGGCTGTTTCCAAGGCCAGCAGCCGCGTAGCAGCTTCAGCATGGAAGAGGAGTC
CTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001271489
- Insert Size:** 1404 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001271489.1](#), [NP_001258418.1](#)

RefSeq Size: 3274 bp

RefSeq ORF: 1404 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 (4) uses an alternate splice site at an internal exon, compared to variant 1, and initiates translation at a downstream in-frame start codon. The encoded isoform (c) has a shorter N-terminus, compared to isoform a. Variants 3, 4, and 5 encode the same isoform (c).