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Product datasheet for MC227847

Tfe3 (NM_001105197) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfe3 (NM_001105197) 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:

>MC227847 representing NM_001105197
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCATCTTCTTCATCACGGGTCTTGCTGCGTCAGCAGCTTATGAGGGCCCAGGCTCAGGAACAGGAGA
GGCGTGAGCGGCGGGAACAGGCAGCGGCCGCTCCCTTCCCCAGCCCTGCGCCCGCCTCACCAGCCATCTC
TGTGATTGGCGTGTCTGCTGGTGGCCACACACTGAGTCGTCCACCTCCTGCTCAGGTGCCCAGGGAGGTA
CTCAAGGTTCAGACCCACCTCGAGAACCCTACACGCTACCACCTGCAGCAAGCTCGCCGGCAGCAGGTCA
AACAGTACTTGTCTACCACACTTGGGCCCAAGCTGGCTTCCCAGGCTCTCACCCCACCACCAGGGCCTTC
CAGTGCCCAGCCACTTCCTGCCCCTGAAACTGCTCATGCCACCGGTCCTACAGGCAGTGCTCCTAACAGC
CCCATGGCGCTGCTCACCATTGGGTCCAGCTCAGAAAAGGAGATTGATGATGTCATTGATGAGATCATCA
GCCTGGAGTCCAGTTACAACGATGAGATGCTCAGCTATCTTCCAGGAGGCACTGCAGGGCTGCAGCTCCC
CAGCACGCTGCCGGTGTCTGGAAATCTACTTGATGTGTACAGCAGTCAGGGAGTGGCTACCCCAGCTATC
ACCGTCAGCAATTCCTGTCCAGCTGAGCTGCCTAACATCAAACGCGAGATCTCCGAAACCGAGGCAAAGG
CCCTTTTGAAGGAGCGACAGAAGAAAGACAATCACAACCTAATTGAACGACGCAGGCGATTCAACATTAA
CGATAGGATCAAAGAGCTGGGCACCCTCATCCCCAAGTCCAATGATCCGGAGATGCGCTGGAACAAGGGC
ACCATCCTGAAGGCATCTGTGGATTACATCCGCAAATTACAGAAGGAACAGCAACGCTCCAAAGACCTGG
AGAGCCGGCAGCGGTCCCTGGAACAAGCCAACCGAAGCCTGCAGCTCCGGATTCAGGAGCTAGAACTGCA
GGCCCAGATCCATGGTCTGCCAGTCCCTCCCAACCCAGGACTGCTCTCCCTAACCACGAGTTCGGTCTCT
GACAGCCTCAAGCCAGAACAGCTGGACATTGAGGAGGAGGGCAGGCCTAGCACAACGTTCCATGTATCGG
GAGGACCTGCCCAGAACGCTCCTCCACAACAGCCTCCAGCACCACCTTCGGATGCCCTTCTGGACCTACA
CTTTCCCAGCGACCACTTGGGAGACCTGGGGGACCCCTTCCACCTAGGGCTAGAGGACATTCTGATGGAG
GAGGAGGGGATGGTGGGAGGACTGTCAGGGGGTGCCCTGTCCCCACTGCGGGCTGCTTCTGACCCCCTGC
TTTCTTCAGTATCCCCGGCTGTTTCCAAGGCCAGCAGCCGCCGTAGCAGCTTCAGCATGGAAGAGGAGTC
CTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001105197

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_001105197.1, NP_001098667.1
RefSeq Size:	2979 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 (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (c) has a shorter N-terminus, compared to isoform a. Variants 3, 4, and 5 encode the same isoform (c).