

Product datasheet for MC227665

Tfe3 (NM_001271491) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tfe3 (NM_001271491) 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
Fully Sequenced ORF: >MC227665 representing NM_001271491
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCATCTTCTTCATCACGGGCTTGCTGCGTCAGCAGCTTATGAGGGCCAGGCTCAGGAACAGGAGA
 GCGGTGAGCGGGGAACAGGCAGCGGCCGCTCCCTTCCCAGCCCTGCGCCGCCTCACCAGCCATCTC
 TGTGATTGGCGTGTCTGCTGGTGCCACACTGAGTCGTCCACCTCCTGCTCAGGTGCCAGGGAGGTA
 CTAAGGTTTCAGACCCACCTCGAGAACCCTACAGCTACCACCTGCAGCAAGCTCGCCGGCAGCAGGTCA
 AACAGTACTTGTCTACCACACTTGGGCCAAGCTGGCTTCCCAGGCTCTACCCACCACCAGGGCCTTC
 CAGTGCCAGCCACTTCCCTGCCCTGAACTGCTCATGCCACCGTCTACAGGCAGTGCTCCTAACAGC
 CCCATGGCGTGTCTACCATTGGGTCCAGCTCAGAAAAGGAGCTGCCGGTGTCTGGAAATCTACTTGATG
 TGTACAGCAGTCAGGGAGTGGCTACCCAGCTATCACCGTCAGCAATTCCTGTCCAGTGAGTGCCTAA
 CATCAAACGCGAGATCTCCGAAACCGAGGCAAAGGCCCTTTTGAAGGAGCGACAGAAGAAAGACAATCAC
 AACCTAATTGAACGACGAGCGGATTCAACATTAACGATAGGATCAAAGAGCTGGGCACCCCTCATCCCCA
 AGTCCAATGATCCGGAGATGCGCTGGAACAAGGGCACCATCCTGAAGGCATCTGTGGATTACATCCGCAA
 ATTACAGAAGGAACAGCAACGCTCCAAAGACCTGGAGAGCCGGCAGCGGTCCCTGGAACAAGCCAACCGA
 AGCCTGCAGCTCCGGATTAGGAGCTAGAAGTGCAGGCCAGATCCATGGTCTGCCAGTCCCTCCCAACC
 CAGGACTGCTCTCCCTAACCCAGGATTCGGTCTCTGACAGCCTCAAGCCAGAACAGCTGGACATTGAGGA
 GGAGGGCAGGCCATGACACAACGTTCCATGTATCGGGAGGACCTGCCAGAACGCTCCTCCACAACAGCCT
 CCAGCACCACTTCGGATGCCCTTCTGGACCTACTTTCCAGCGACCACTTGGGAGACCTGGGGGACC
 CCTTCCACCTAGGGCTAGAGGACATTCTGATGGAGGAGGGGATGGTGGGAGGACTGTCAGGGGGTGC
 CCTGTCCCCTGCGGGTCTTCTGACCCCTGCTTTCTCAGTATCCCAGGCTGTTTCCAAGGCCAGC
 AGCCGCGTAGCAGCTTACAGATGGAAGAGGAGTCT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001271491
Insert Size:	1299 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:	<ol style="list-style-type: none">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:	<u>NM_001271491.1</u> , <u>NP_001258420.1</u>
RefSeq Size:	2908 bp
RefSeq ORF:	1299 bp
Locus ID:	209446
UniProt ID:	<u>Q64092</u>
Cytogenetics:	X 3.5 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (6) differs in the 5' UTR, has multiple differences in the coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (d) is shorter than isoform a.</p>