

Product datasheet for **SC302148**

TFEC (NM_001018058) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFEC (NM_001018058) Human Untagged Clone
Tag:	Tag Free
Symbol:	TFEC
Synonyms:	bHLHe34; hTFEC-L; TCFEC; TFE-C; TFEC-L; TFEC-L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001018058 edited
 GGGATTCCAACCAGCCCAAAGTATTCATTACTCACGGCTAGATCGTTTACTTTGGTTGTC
 CCTTCTGGCATGGTGCATATGTTATGGGAAGAGGGATTATAATTTGGTGCCTGTTGTAGA
 GATGACAACACTGATAAAATCCACTCATTGCTGGTCCCAGCACACCTGGAAAAGTTCTGCA
 AGGCCTCAGCTACAGAAAAGCCAGAGACAGAAAAGTAACTCTTTCATGACCCTTGATCAT
 CAGATCATCAATCCAACCTCTTAAATGGTCAACCTGCAGTGCCAAGTGGTGGCCTCTT
 GTGCAGCATGCACACAACTCTGGACAGTGATGCTGGCCTCACAGAAAACCCACTCACC
 AAGTTACTAGCTATTGGGAAAGAAGATGACAATGCACAATGGCATTATCTGGAAGTATT
 TTGGATGTGTATAGCGGTGAACAAGGAATTTACCAATTAACATGGGGCTTACAAGTGCT
 TCTTGTCCAAGTAGTCTACCAATGAAAAGAGAAATTACAGAACTGACACTAGAGCTTTA
 GCAAAAGAGAGACAAAAAAGGACAACCACAACCTCATTGAAAGAAGAAGGTATAAT
 ATTAATTACCGAATCAAGGAGCTTGGCACTCTTATTCCAAAGTCTAATGATCCTGATATG
 CGCTGGAACAAAGGAACCATTCTAAAAGCATCAGTGGAGTACATCAAGTGGCTACAAAA
 GAACAACAGAGAGCCCGAGAATTGGAACACAGACAGAAGAAATTAGAGCAGGCTAACAGG
 CGACTTCTACTTCGGATTGAGAACTAGAAATTCAGGCTCGTACTCATGGTCTGCCAAC
 CTGGCTTCACTTGGCACGGTTGATTTAGGTGCTCATGTCACCAAACAGCAGAGCCATCCT
 GAGCAGAATTCAGTAGACTATTGCCAACAACTGACTGTGTCTCAGGGGCCAAGCCCTGAG
 CTCTGTGATCAAGCTATAGCCTTTTCTGATCCTTTGTCATACTTCACAGATTTATCATT
 AGTGTGTCATTGAAAGAGGAACAAAGATTGGATGGCATGCTATTGGATGACACAATCTCT
 CCATTTGGAACAGATCCTCTGCTATCTGCCACTCCCCTGCAGTTTCAAAGAAAGCAGT
 AGGAGAAGTAGCTTTAGCTCAGATGATGGTGTGATGAATTAAGAAATAACAGACCCAAT
 TCATCAACTGGAAGCAATTCTATGCTGGTGTATGCAATTATGCTCTGTGTTTCATATG
 TTGCTTTGGCTTATTTTTTTTCTTAAAGGAATGTGTTGTTTCATGAAAACTGATAGAAGC
 AACAGAAGAAATTCGCAGGAAGAAAAATCATAGTGTAAATGAATTATTGAGGGCGAAAAA
 AGGTGTTTTCTTCTTGGACTACGGAGTCCAAATCCAATTAATCTGTTTTCTGAAAAAG
 AGGTACACATAAGAAATAGCTCTTTATTGATGTTTTAAAAGCAGCAACTGGTGGTGTAC
 TACTGGAATAATGACTGCAAAGTGTAAACGACTGAAATATACAAACAGTCTCTTAGTT
 ACTCATTTCCATCTTCTTCACTTTTACATCAGTCTCCGGAATCAAGATCAACATAT
 CAGGTGGTCATTGCCTTTCTCCATTGTCTAGTAGACATGTCTAAAGTTCAAACCTTATAG
 GATAAATAAATGTATAATAGATTATCTGCACTTGTGGTTGAAAGGCAAACTACAATAA
 ATGTGAGAAATTTCCACAATAAAATATGGATAACTTATAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001018058
- Insert Size:** 1800 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001018058.1</u> , <u>NP_001018068.1</u>
RefSeq Size:	6544 bp
RefSeq ORF:	957 bp
Locus ID:	22797
UniProt ID:	<u>O14948</u>
Cytogenetics:	7q31.2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>This gene encodes a member of the microphthalmia (MiT) family of basic helix-loop-helix leucine zipper transcription factors. MiT transcription factors regulate the expression of target genes by binding to E-box recognition sequences as homo- or heterodimers, and play roles in multiple cellular processes including survival, growth and differentiation. The encoded protein is a transcriptional activator of the nonmuscle myosin II heavy chain-A gene, and may also co-regulate target genes in osteoclasts as a heterodimer with microphthalmia-associated transcription factor. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]</p> <p>Transcript Variant: This variant (2) lacks an exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (b) is shorter than isoform a.</p> <p>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.</p>