

Product datasheet for **SC313055**

TFEC (NM_012252) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFEC (NM_012252) Human Untagged Clone
Tag:	Tag Free
Symbol:	TFEC
Synonyms:	bHLHe34; hTFEC-L; TC FEC; 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_012252 edited
 ATCGTTTACTTTGGTGTCCCTTCTGGCATGGTGCATATGTTATGGGAAGAGGGATTATA
 ATTTGGTGCTGTTTGTAGAGATGACAACACTGATAAAATCCACTCATTGCTGGTCCCAGC
 ACACCTGGAAAGTTTCTGCAAGGCCTCAGCTACAGAAAGCCAGAGACAGAAAAGTAAACT
 TTTTCATGACCCTTGATCATCAGATCATCAATCCAACCTTAAATGGTCACAACCTGCAGT
 GCCAAGTGGTGGCCTCTGTGCAGCATGCACACACAACCTCTGGACAGTATGCTGGCCT
 CACAGAAAACCCACTACCAAGTTACTAGCTATTGGGAAAAGAAGATGACAATGCACAATG
 GCATATGGAGGACGTTATTGAGGATATAATCGGTATGGAATCAAGTTTTAAAGAGGAAGG
 AGCAGACTCTCCTCTGCTAATGCAAAGAACATTATCTGGAAGTATTTGGATGTGTATAG
 CGGTGAACAAGGAATTTACCAATTAACATGGGGCTTACAAGTGCTTCTGTCCAAGTAG
 TCTACCAATGAAAAGAGAAATTACAGAACTGACACTAGAGCTTTAGCAAAAGAGAGACA
 AAAAAAGGACAACCACAACCTCATTGAAAGAAGAAGAAGTATAATTAATTACCGAAT
 CAAGGAGCTTGGCACTCTATTCCAAAGTCTAATGATCCTGATATGCGCTGGAACAAAGG
 AACCATTTCTAAAAGCATCAGTGGAGTACATCAAGTGGCTACAAAAAGAACAACAGAGAGC
 CCGAGAATTGGAACACAGACAGAAGAAATTAGAGCAGGCTAACAGGCGACTTCTACTTCG
 GATTTCAGGAACTAGAAAATTCAGGCTCGTACTCATGGTCTGCCAACCTGGCTTCACTTGG
 CACGGTTGATTTAGGTGCTCATGTCACCAACAGCAGAGCCATCCTGAGCAGAATTCAGT
 AGACTATTGCCAACAACTGACTGTGTCTCAGGGCCCAAGCCCTGAGCTCTGTGATCAAGC
 TATAGCCTTTTCTGATCCTTTGTACACTTACAGATTTATCATTTAGTGCTGCATTGAA
 AGAGGAACAAAGATTGGATGGCATGCTATTGGATGACACAATCTCTCCATTTGGAACAGA
 TCCTCTGCTATCTGCCACTTCCCCTGCAGTTTCCAAAGAAAGCAGTAGGAGAAGTAGCTT
 TAGCTCAGATGATGGTGTGCAATTATGCTCTGTGTTTCATATGTTGCTTTGGCTTAT
 GCAATTTCTAAGGAAATGTGTTGTTTCATGAAAACTGATAGAAGCAACAGAAAGAAATTCG
 CAGGAAGAAAAATCATAGTGTTAATGAATTATTGAGGGCGAAAAAAGGTGTTTTCTTCT
 TTGACTACGGAGTCCAAATCCACTTAAATTCTGTTTTCTGAAAAGAGGTACAGCATAAG
 AAATAGCTCTTTATTGATGTTTTAAAAGCAGCAACTTGGTGGTGTACTACTGGAACATA
 GACTGCAAAGTGTAAACGACTGAAATATACAAACAGTCTCTTAGTTACTCATTTCATC
 TTCTCTTCAACTTTCACATCAGTCTTCCGGAATCAAGATCAACATATCAGGTGGTCATTG
 CCTTTCTCCATTGTCTAGTAGACATGTCTAAAGTTCAACTTTATAGGATAAATAAATGT
 ATAATAGATTATCTGTCCTTGTGGTTGAAAGGCAAACTACAATAAATGTGAGAATTTT
 CCACAATAAAATATGGATAACTTATAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_012252
- Insert Size:** 1900 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:

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_012252.2](#), [NP_036384.1](#)

RefSeq Size: 6631 bp

RefSeq ORF: 1044 bp

Locus ID: 22797

UniProt ID: [O14948](#)

Cytogenetics: 7q31.2

Domains: HLH

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: 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]
Transcript Variant: This variant (1) represents the longest transcript and 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.