

## Product datasheet for **SC116014**

### TFE3 (NM\_006521) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TFE3 (NM_006521) Human Untagged Clone
Tag:	Tag Free
Symbol:	TFE3
Synonyms:	bHLHe33; RCCP2; RCCX1; TFEA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_006521, the custom clone sequence may differ by one or more nucleotides

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ATGTCTCATGCGGCCGAACCAGCTCGGGATGGCGTAGAGGCCAGCGGGAGGGCCCTCGAGCCGTGTTCCG
TGCTGTTGGAGGAGCGCAGGCCGGCCGACTCGGCTCAGCTGCAGCTGAACTCTTTGCTCCGGAATC
CGGGATTGTTGCTGACATAGAATTAGAAAACGTCCTTGATCCTGACAGCTTCTACGAGCTCAAAGCCAA
CCCTTACCCTTCGCTCAAGCCTCCAATATACTGCAGGCCACACCAGCCACCCAGCTACACTCTCTG
CATCGTCTTCTGCAGGGGCTCCAGGACCCTGCCATGTCGTATCTTCTTCATCGAGGGTCTTGCTGCG
GCAGCAGTAATGCGGGCCAGGCGCAGGAGCAGGAGAGGCGTGAGCGTCGGGAACAGGCCGCCGCGGCT
CCCTTCCCAGTCTGCACCTGCCTCTCTGCCATCTCTGTGGTGGCGTCTCTGCTGGGGGCCACACAT
TGAGCCGTCCACCCCTGCTCAGGTGCCAGGGAGGTGCTCAAGGTGCAGACCCATCTGGAGAACCCAAAC
GCGCTACCACCTGCAGCAGGCGCGCCGGCAGCAGGTGAAACAGTACCTGTCCACCACACTCGGGCCCAAG
CTGGCTTCCCAGGCCCTACCCACCGCCGGGGCCGCAAGTCCCAGCCACTGCCTGCCCTGAGGCTG
CCCACACTACCGCCCCACAGGCAGTGCGCCAACAGCCCATGGCGTCTCACCATCGGGTCCAGCTC
AGAGAAGGAGATTGATGATGTCATTGATGAGATCATCAGCTGGAGTCCAGTTACAATGATGAAATGCTC
AGCTATCTGCCCGGAGGCCACCACAGGACTGCAGCTCCCCAGCACGCTGCCTGTGTGAGGGAATCTGCTTG
ATGTGTACAGTAGTCAAGGCGTGGCCACACCAGCCATCACTGTCAGCAACTCTGCCAGCTGAGCTGCC
CAACATCAAACGGGAGATCTCTGAGACCAGGCAAGGCCCTTTTGAAGGAACGGCAGAGAAGAAAGACAAT
CACAACCTAATTGAGCGTCGCAGGCGATTCAACATTAACGACAGGATCAAGGAACGGGCACTCTCATCC
CTAAGTCCAGTGACCCGGAGATGCGCTGGAACAAGGGCACCATCCTGAAGGCCTCTGTGGATTATATCCG
CAAGCTGCAGAAGGAGCAGCAGCGCTCCAAGACCTGGAGAGCCGGCAGCGATCCCTGGAGCAGGCCAAC
CGCAGCTGCAGCTCCGAATTCAGGAACTAGAAGTGCAGGCCAGATCCATGGCCTGCCATCCCTCCCA
CTCCAGGGCTGCTTCTTGGCCACGACTTCGGCTTCTGACAGCCTCAAGCCAGAGCAGCTGGACATTGA
GGAGGAGGGCAGGCCAGGCGCAGCAACGTTCCATGTAGGGGGGGACCTGCCAGAAATGCTCCCATCAG
CAGCCCCCTGCACCGCCCTCAGATGCCCTTCTGGACCTGCACTTCCCAGCGACCACCTGGGGGACCTGG
GAGACCCCTTCCACCTGGGGCTGGAGGACATTCTGATGGAGGAGGAGGGGGTGGTGGGAGGACTGTC
GGGGGGTGCCTGTCCCACTGCGGGCTGCCTCCGATCCCTGCTCTTTCAGTGTCCCCTGCTGTCTCC
AAGGCCAGCAGCCCGCAGCAGCTTCAGCATGGAAGAGGAGTCTCGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006521 unedited

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ATTACCCCGCCCCGTTGCGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGC
AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCG
AATTCCGCACGAGGAGGGGGGGCGTCCGTTCTGGGCGGGGATGACTCACAGCCCA
TCCCATCTCCCCGACGCCGCCCGCCCGCAGTGTAGCTCCATGGCTTAGCGGAGGAGG
CGGCAGTGGCGAGCTGGGGGAGGGGGGACTCTTATTTTGTAGGGGGACCGGGCCGAGG
CCCGACCGGCCTGGCAGGGCTCGCCCGGGCCGGGCGTATGTCTCATGCGGCCGAACCA
GCTCGGGATGGCGTAGAGGCCAGCGCGGAGGGCCCTCGAGCCGTGTTCTGTGCTGTTGGAG
GAGCGCAGGCCGGCCGACTCGGCTCAGCTGCTCAGCCTGAACTCTTTGCTTCCGGAATCC
GGGATTGTTGCTGACATAGAATTAGAAAACGTCCTTGATCCTGACAGCTTCTACGAGCTC
AAAAGCCAACCCTTACCCTTCGCTCAAGCCTCCAATATACTGCAGGCCACACCAGCC
ACCCAGCTACACTCTCTGCATCGTCTTCTGCAGGGGGCTCCAGGACCCCTGCCATGTCG
TCATCTTCTTCATCGAGGTCTTGTGCGGCAGCAGCTAATGCTGGCCCAGGCGCAGGAG
CAGGAGAGGCGTGAGCTGTCGGCACAGGCCCGCGGCTCCCTTCCCAGTCTGCACCTG
CCTCTCCTGCCTCATGTGGCTGGCGTCTCTGCTGGGGCCACACATGAGCCGTCCACC
CCTGCTCAGTGCCCAAGGAGTGTCAAGGTGCAGACCATCTGGAGAACCTACGGCTAC
CACTGCAGCAGCGCGCTGCA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006521 unedited TATGGTACCGCGGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTCAAACACTTCC TATCTTTTATTATTTTAAATCACAAATTTTTTACCCCTCATTTTACCCTCCATGGGGCC TGGCCCCAGCAATCCTTATCTAACACCCTTGGTTGTAAGTATGATGGGTGGAAAAGGAGG GGGGAGTCCCCATTTCCCAAAGGCCCGTTGGGTCTTTTTTTTCAAAAAACCATTT TTTTTAAAAAATCTGGAACCCCTTTTGGCCCTGAACCCCCCTTTTTTTTTTTA AAACTGGGGCTAAAAAAGCAAGCCCAACCAATTTTTAATCCAAAAACCCAGGGTTT AAAAAGTCCCGGTTTACCCCGGAAATTCAGGGATTTTTTGAAAAAAGGGGCT TTTTCCCTTTTCCCGGCCAAAAAATTTCCCAAGGGCCACCCAAGTTTTTTTTTCC TTTTCTGGGGGAAGGCCCTGGGAAACTGGGAAATTTCTTTTACCCCTTTTTGA AAAAATCAACACCTTTTTTTTCCGGGAACCCCAATTGGAAGGGCCCGGCTTGTAAAGG CCCAAGTTTTTCCCAAAAAATGCCCTTTGGAATTTGGGCCCAAAAAACCTTGC CCTCGGGTCCGAAGTTTTTATAAAACCCGGGACCCCAAGTTTAAATGGGGGGGGC CTCTTAAGGTGGGGGGGCCCGGGACCCCTCACTTTTGGGATATTTTCTAGA GGAAAAAGGGACTTTTGGCCCCAGGAAACCCCTTCTGCACCTAAATTTGTTAAAAA TTTTGGGACCGTTTCCCGCCCGCTCTGGAAGGGCCCTCACCCGTTGGGGTTT GTTTTTCGGTGAACAAAAACCCGGGACCTTGTGCCAAAAAC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006521
<b>Insert Size:</b>	3700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_006521.3</a></u> , <u><a href="#">NP_006512.2</a></u>
<b>RefSeq Size:</b>	3431 bp
<b>RefSeq ORF:</b>	1728 bp
<b>Locus ID:</b>	7030
<b>UniProt ID:</b>	<u><a href="#">P19532</a></u>
<b>Cytogenetics:</b>	Xp11.23
<b>Domains:</b>	HLH

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** This gene encodes a basic helix-loop-helix domain-containing transcription factor that binds MUE3-type E-box sequences in the promoter of genes. The encoded protein promotes the expression of genes downstream of transforming growth factor beta (TGF-beta) signaling. This gene may be involved in chromosomal translocations in renal cell carcinomas and other cancers, resulting in the production of fusion proteins. Translocation partners include PRCC (papillary renal cell carcinoma), NONO (non-POU domain containing, octamer-binding), and ASPSCR1 (alveolar soft part sarcoma chromosome region, candidate 1), among other genes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).