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Product datasheet for SC320562

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_006521.3
GGGGGAGGAGGGCGGTCGTCCGGGGTTAGGTTGAGGGGGGGCGTCGGTCCGTTCTGGGCG
GGGGATGACTCACAGCCCATCCCATCTCCCCGACGCCGCCCGCCCGCGCAGTGCTAGCTC
CATGGCTTAGCGGAGGAGGCGGCAGTGGCGAGCTGGGGGGAGGGGGGACTCTTATTTTGT
TAGGGGGACCGGGCCGAGGCCCGACCGGCCTGGCAGGGCTCGCCCGGGGCCGGGCGTCAT
GTCTCATGCGGCCGAACCAGCTCGGGATGGCGTAGAGGCCAGCGCGGAGGGCCCTCGAGC
CGTGTTCGTGCTGTTGGAGGAGCGCAGGCCGGCCGACTCGGCTCAGCTGCTCAGCCTGAA
CTCTTTGCTTCCGGAATCCGGGATTGTTGCTGACATAGAATTAGAAAACGTCCTTGATCC
TGACAGCTTCTACGAGCTCAAAAGCCAACCCTTACCCCTTCGCTCAAGCCTCCCAATATC
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CAGGACCCCTGCCATGTCGTCATCTTCTTCATCGAGGGTCTTGCTGCGGCAGCAGCTAAT
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GCCTCCCACTCCAGGGCTGCTTTCCTTGGCCACGACTTCGGCTTCTGACAGCCTCAAGCC
AGAGCAGCTGGACATTGAGGAGGAGGGCAGGCCAGGCGCAGCAACGTTCCATGTAGGGGG
GGGACCTGCCCAGAATGCTCCCCATCAGCAGCCCCCTGCACCGCCCTCAGATGCCCTTCT
GGACCTGCACTTTCCCAGCGACCACCTGGGGGACCTGGGAGACCCCTTCCACCTGGGGCT
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GACAGATTATGAAATTTCATGGATGAATTTTCCAGACCTATATCTGGAGTGAGAGGCCCC
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AAGCTAGGCGTGTTTGATGCGCTTTTAACTTTGAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_006521

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_006521.3, NP_006512.2
RefSeq Size:	3431 bp
RefSeq ORF:	1728 bp
Locus ID:	7030
UniProt ID:	P19532
Cytogenetics:	Xp11.23
Domains:	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).