

Product datasheet for **SC303283**

TCF3 / E2A (TCF3) (NM_003200) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF3 / E2A (TCF3) (NM_003200) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCF3 / E2A
Synonyms:	AGM8; bHLHb21; E2A; E47; ITF1; p75; TCF-3; VDIR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_003200 edited
GAGAATGAACCAGCCGCAGAGGATGGCGCCTGTGGGCACAGACAAGGAGCTCAGTGACCT
CCTGGACTTCAGCATGATGTTCCCGCTGCCTGTACCAACGGGAAGGGCCGCCCGCCTC
CCTGGCCGGGGCGCAGTTCGGAGGTTCAAGTCTTGAGGACCGGCCAGCTCAGGCTCCTG
GGGCAGCGGGCAGCAGAGCAGCTCCTCCTTTGACCCAGCCGGACCTTCAGCGAGGGCAC
CCACTTCACTGAGTCGCACAGCAGCCTCTCTTCATCCACATTCTGGGACCGGGACTCGG
AGGCAAGAGCGGTGAGCGGGGGCGCCTATGCCTCCTTCGGGAGAGACGCAGGCGTGGGCGG
CCTGACTCAGGCTGGCTTCTGTGTCAGGCGAGCTGGCCCTCAACAGCCCGGGCCCTGTC
CCCTTCGGGCATGAAGGGGACCTCCAGTACTACCCCTCTACTCCGGCAGCTCCCGCGG
GAGAGCGGCAGACGGCAGCCTAGACACGCAGCCAAAGAAGGTCCGGAAGGTCCCGCCGGG
TCTTCCATCCTCGGTGTACCCACCCAGCTCAGGTGAGGACTACGGCAGGGATGCCACCGC
CTACCCGTCGCCAAGACCCCCAGCAGCACCTATCCCGCCCTTCTACGTGGCAGATGG
CAGCCTGCACCCCTCAGCCGAGCTCTGGAGTCCCCGGGCCAGGCGGGCTTCGGGCCAT
GCTGGGTGGGGGCTCATCCCGCTGCCCTCCCGCCGGTAGCGGCCGGTGGGCAGCAG
TGAAGCAGCAGCAGCTTTGGTGGCCTGCACCAGCAGCAGCGTATGGGCTACCAGCTGCA
TGGAGCAGAGGTGAACGGTGGGCTCCCATCTGCATCCTCCTTCTCCTCAGCCCCGGAGC
CAGTACGGCGGGCTCTCCAGCCACACGCCGCTGTACGCGGGCCGACAGCCTCCTGGG
CTCCCGAGGGACACAGCTGGCAGCTCCGGGGATGCCCTCGGCAAGCACTGGCCTCGAT
CTACTCCCGGGTCACTCAAGCAATAACTTCTCGTCCAGCCCTTCTACCCCGTGGGCTC
CCCCAGGGCCTGGCAGGAACGTACAGTGGCCTCGAGCAGGAGCCCGGGTGCCTTATC
GGCCAGCTACGACGGGGTCTCCACGGCCTGCAGAGTAAGATAGAAGACCACCTGGACGA
GGCCATCCACGTGCTCCGACGCCAGCCGTGGGCACAGCCGGCGACATGCACACGCTGCT
CCCTGGCCACGGGGCGCTGGCCTCAGTTCACCACTCCCATGTGCTGGGTGGGCGGCA
CGCAGGCCCTGGTTGGAGGCAGCCACCCCGAGGACGGCCTCGCAGGCAGCACCAGCCTCAT
GCACAACCACGGCCCTCCCGACCCAGCCAGGACCCCTCCCTGACCTGTCTCGGCTCC
CGACTCTACAGTGGGCTAGGGCGAGCAGGTGCCACGGCGGCCCGCAGCGAGATCAAGCG
GGAGGAGAAGGAGGACGAGGAGAACACGTACGCGGCTGACCACTCGGAGGAGGAGAAGAA
GGAGCTGAAGGCCCCCGGGCCCGGACCCAGCCAGACGAGGACGAGGACGACCTTCTCCC
CCCAGAGCAGAAGGCCGAGCGGGAGAAGGAGCGCCGGTGGCCAATAACGCCCGGAGCG
GCTGCGGGTCCGTGACATCAACGAGGCCTTAAGGAGCTGGGGCGCATGTCCAACCTGCA
CCTCAACAGCGAGAAGCCCGAGCCAAACTGCTCATCCTGCACCAGGCTGTCTCGGTCAT
CCTGAACCTTGAGCAGCAAGTGCAGAGCGGAACCTGAATCCCAAGCAGCCTGTTTGAA
ACGGCGAGAAGAGGAAAAGGTGTAGGTGTGGTTGGAGACCCCAAGATGGTGCTTTCAGC
TCCCCACCCAGGCCTGAGCGAAGCCACAACCCCGCCGGGCACATGTGAAAGGTATGCCT
CCGTGGGACGAGCCACCCGCTTTCAGCCCTGTGCTCTGGCCCCAGAAGCCGGACTCGAGA
CCCCGGGCTTCATCCACATCCACACCTCACACCTGTTGTGACATCGAGCCAACACCA
ACCTGACAAGGTTTCGGAGTGTGGGGCGGCAAGGTGACACTGGGTCCAGGAGCTCCCT
GGGGCCCTGGCCTACCACTCACTGGCCTCGCTCCCCGTGCCCGAATCTCAGCCACCGT
GCACTCTGTGACCTGTCCCATGGATCCTGAAACTGCATCTTGGCCCTGTTGCCTGGGCT
GACAGGAGCATTTTTTTTTTTTCCAGTAACAAAACCTGAAAGCAAGCAAAAACATAC
ACTTTGTGAGAGAAGAAAAAATGCCTTAACTATAAAAAGCGGAGAAATGAAACATATC
ACTCAAGGGGATGCTGTGAAACCTGGCTTATTCTTCTAAAGCCACCAGCAAATGTGC
CTAAGCGAAATATTTTTTTTAAGGAAAATAAAAACATTAGTTACAAGATTTTTTTTTTTC
TTAATGTAGATGAAAATTAGCAAGGATGCTGCCTTTGGTCTCTGGTTTTTTTTTAAGCTTTT
TTTGCATATGTTTTGTAAGCAACAAATTTTTTTGTATAAAAGTCCCGTGTCTCTCGCTAA
AAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003200 unedited TTCAAGTCACAATTGTATACGACTCATATAGGCGGCCGCGNAATCGCCCTTGAGAATGAA CCAGCCGAGAGGAGGCGCTGTGGGCACAGACAAGGAGCTCAGTGACCTCCTGGACTTC AGCATGATGTTCCCGTGCCTGTACCAACGGGAAGGGCCGGCCCGCCTCCCTGGCCGGG GCGCAGTTCGGAGGTTCAAGTCTTGAGGACCGGCCAGCTCAGGCTCCTGGGCAGCGGC GACCAGAGCAGCTCCTCCTTTGACCCAGCCGGACCTTCAGCGAGGGCACCCACTTCACT GAGTCGCACAGCAGCCTCTCTTCCATCCATTCTGGGACCGGGACTCGGAGGCAAGAGC GGTGAGCGGGGCCCTATGCCTCCTTCGGGAGAGACGCAGGCGTGGGCGGCCTGACTCAG GCTGGCTTCTGTGAGGCGAGCTGGCCCTCAACAGCCCCGGGCCCTGTCCCCTTCGGGC ATGAAGGGGACCTCCCAGTACTACCCTCCTACTCCGGCAGCTCCCGGGGAGAGCGGCA GACGGCAGCTAGACACGCAGCCCAAGAAGTCCGGAAGGTCCCGCCGGTCTTCCATCC TCGGTGTACCCACCCAGCTCAGGTGAGGACTACGGCAGGGATGCCACCGCTACCCGTCC GCCAAGACCCCCAGCAGCACCTATCCCGCCCCCTTCTACGTGGCAGATGGCAGCCTGCAC CCCTCAGCCGAGCTCTGGAGTCCCCCGGGCCAAGCGGGCTTCGGGCCATGCTGGGTGGG GGCTCAATCCCGTGGCCCTCCCGCCCGGTACGGCCCCGGGGGCAGCAGTGAAGCCAC A</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003200 unedited AGNAAAGCACTGGGGNAGGGTCACAGGGATGCCACCCGGGCTCTGTTGAGGAAACAGCTA TGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTATGCGAGAGA CACGGGACTTTTATACAAAAAATTTGTTGCTTACAAAACATATGCAAAAAAAGCTTAAA AAAACCAGAGACCAAAGGCAGCATCCTTGCTAATTTTCATCTACATTAAGAAAAA ATCTTGTAACTAATGTTTTATTTTCCTTAAAAAATATTTTCGTTAGGCACAATTTGC TGGTGGCTTTAGAAGAATAAGCCAGGTTTCCACAGCATCCCCCTTGAGTGATATGTTTCC ATTTCTCCGTTTTTATAGTTAAGGCATTTTTTTCTTCTGACAAAGTGTATGTTTTGT TGCTTGCTTTCAGGTTTTGTTTACTGGAAAAAATGCTCCTGTCAGCCCAGGCAA CAGGGCCAAGATGCAGTTTCAGGATCCATGGGACAGGTACAGAGTGACACGGTGGCTGA GATTCGGGGACAGGGGAGCGAGGCCAGTGAGTGGTAGGCCAGGGCCCCAGGGAGCTCCT GGACCCAGTGTACCTTTGGCCGCCCATCACTCCGAACCTTGTGAGTTGGTGTGGCT CGATGTTGACAACAGGTGTGTGAGGTGTGGATGTGGATGAAGCCCGGGGCTCGAGTGGC CGTTCTGGGGCCAGGCCAGGGCTGAAAGCGGGTGGCTCGTCCCACGAGGCATACCTTTTC AATGTGCCCGCGGGGTTGTGGGCTTCGCTCAGCCTGGGTGGGGAGCTGAAAGCCATCT GGGGGTCTC</p>
Restriction Sites:	Please inquire
ACCN:	NM_003200
Insert Size:	2700 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:	There are 3 nucleotide differences between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 2 amino acid.
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:	NM_003200.1 , NP_003191.1
RefSeq Size:	4396 bp
RefSeq ORF:	1965 bp
Locus ID:	6929
UniProt ID:	P15923
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
Gene Summary:	<p>This gene encodes a member of the E protein (class I) family of helix-loop-helix transcription factors. E proteins activate transcription by binding to regulatory E-box sequences on target genes as heterodimers or homodimers, and are inhibited by heterodimerization with inhibitor of DNA-binding (class IV) helix-loop-helix proteins. E proteins play a critical role in lymphopoiesis, and the encoded protein is required for B and T lymphocyte development. Deletion of this gene or diminished activity of the encoded protein may play a role in lymphoid malignancies. This gene is also involved in several chromosomal translocations that are associated with lymphoid malignancies including pre-B-cell acute lymphoblastic leukemia (t(1;19), with PBX1), childhood leukemia (t(19;19), with TFPT) and acute leukemia (t(12;19), with ZNF384). Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 9. [provided by RefSeq, Sep 2011]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (E12). This isoform is also known as Pan-2. 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>