OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC325258

TCF3 / E2A (TCF3) (NM_001136139) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF3 / E2A (TCF3) (NM_001136139) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCF3 / E2A
Synonyms:	AGM8; bHLHb21; E2A; E47; ITF1; p75; TCF-3; VDIR
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF sequence for NM_001136139 edited
CTGAGGTGCCCGCCCTGGCCCCAGGAGAATGAACCAGCCGCAGAGGATGGCGCCTGTGGG
CACAGACAAGGAGCTCAGTGACCTCCTGGACTTCAGCATGATGTTCCCGCTGCCTGTCAC
CAACGGGAAGGGCCGGCCCGCCTCCCTGGCCGGGGCGCAGTTCGGAGGTTCAGGTCTTGA
GGACCGGCCCAGCTCAGGCTCCTGGGGCAGCGGCGACCAGAGCAGCTCCTCCTTTGACCC
CAGCCGGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGCAGCCTCTCTTCATC
CACATTCCTGGGACCGGGACTCGGAGGCAAGAGCGGTGAGCGGGGCGCCTATGCCTCCTT
CGGGAGAGACGCAGGCGTGGGCGGCCTGACTCAGGCTGGCTTCCTGTCAGGCGAGCTGGC
CCTCAACAGCCCCGGGCCCCTGTCCCCTTCGGGCATGAAGGGGACCTCCCAGTACTACCC
CTCCTACTCCGGCAGCTCCCGGCGGAGAGCGGCAGACGGCAGCCTAGACACGCAGCCCAA
GAAGGTCCGGAAGGTCCCGCCGGGTCTTCCATCCTCGGTGTACCCACCCAGCTCAGGTGA
GGACTACGGCAGGGATGCCACCGCCTACCCGTCCGCCAAGACCCCCAGCAGCACCTATCC
CGCCCCCTTCTACGTGGCAGATGGCAGCCTGCACCCCTCAGCCGAGCTCTGGAGTCCCCC
GGGCCAGGCGGGCTTCGGGCCCATGCTGGGTGGGGGCTCATCCCCGCTGCCCCTCCCGCC
CGGTAGCGGCCCGGTGGGCAGCAGTGGAAGCAGCAGCACGTTTGGTGGCCTGCACCAGCA
CGAGCGTATGGGCTACCAGCTGCATGGAGCAGAGGTGAACGGTGGGCTCCCATCTGCATC
CTCCTTCTCCTCAGCCCCCGGAGCCACGTACGGCGGCGTCTCCAGCCACACGCCGCCTGT
CAGCGGGGCCGACAGCCTCCTGGGCTCCCGAGGGACCACAGCTGGCAGCTCCGGGGATGC
CCTCGGCAAAGCACTGGCCTCGATCTACTCCCCGGATCACTCAAGCAATAACTTCTCGTC
CAGCCCTTCTACCCCCGTGGGCTCCCCCCAGGGCCTGGCAGGAACGTCACAGTGGCCTCG
AGCAGGAGCCCCCGGTGCCTTATCGCCCAGCTACGACGGGGGTCTCCACGGCCTGCAGAG
TAAGATAGAAGACCACCTGGACGAGGCCATCCACGTGCTCCGCAGCCACGCCGTGGGCAC
AGCCGGTGACATGCACACGCTGCTGCCTGGCCACGGGGCGCTGGCCTCAGGTTTCACCGG
CCCCATGTCACTGGGCGGGCGGCACGCAGGCCTGGTTGGAGGCAGCCACCCCGAGGACGG
CCTCGCAGGCAGCACCAGCCTCATGCACAACCACGCGGCCCTCCCCAGCCAGCCAGGCAC
CCTCCCTGACCTGTCTCGGCCTCCCGACTCCTACAGTGGGCTAGGGCGAGCAGGTGCCAC
GGCGGCCGCCAGCGAGATCAAGCGGGAGGAGAAGGAGGACGAGGAGAACACGTCAGCGGC
TGACCACTCGGAGGAGGAGAAGAAGGAGCTGAAGGCCCCCCGGGCCCGGACCAGCAGTAC
GGACGAGGTGCTGTCCCTGGAGGAGAAAGACCTGAGGGACCGGGAGAGGCGCATGGCCAA
TAACGCGCGGGAGCGGGTGCGCGTGCGGGATATTAACGAGGCCTTCCGGGAGCTGGGGCG
CATGTGCCAGATGCACCTCAAGTCGGACAAAGCGCAGACCAAGCTGCTCATCCTGCAGCA
GGCCGTGCAGGTCATCCTGGGGCTGGAGCAGCAGGTGCGAGAGCGGAACCTGAATCCCAA
AGCAGCCTGTTTGAAACGGCGAGAAGAGGAAAAGGTGTCAGGTGTGGTTGGAGACCCCCA
GATGGTGCTTTCAGCTCCCCACCCAGGCCTGAGCGAAGCCCACAACCCCGCCGGGCACAT
GTGAAAGTAAACAAAACCTGAAAGCAAGCAACAAAACATACACTTTGTCAGAGAAGAAAA
AAATGCCTTAACTATAAAAAGCGGAGAAATGGAAACATATCACTCAAGGGGGATGCTGTG
GAAACCTG

Restriction Sites: Please inquire

ACCN: NM_001136139

Insert Size: 2100 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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001136139.1.

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_001136139.1, NP_001129611.1
RefSeq Size:	4091 bp
RefSeq ORF:	1956 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:	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] Transcript Variant: This variant (2) differs in the 3' UTR, lacks an exon and includes an alternate exon in the 3' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (E47, also known as Pan-1) is shorter than isoform E12. Variants 2 and 4 encode the same isoform (E47). 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.