

Product datasheet for **RC227647**

TCF3 / E2A (TCF3) (NM_001136139) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCF3 / E2A (TCF3) (NM_001136139) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TCF3 / E2A
Synonyms:	AGM8; bHLHb21; E2A; E47; ITF1; p75; TCF-3; VDIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC227647 representing NM_001136139
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCAGCCGAGAGGATGGCGCCTGTGGGCACAGACAAGGAGCTCAGTGACCTCCTGGACTTCAGCA
TGATGTTCCCGCTGCCTGTACCAACGGGAAGGGCCGGCCCGCCTCCCTGGCCGGGGCGCAGTTCGGAGG
TTCAGGTCTTGAGGACCGGCCAGCTCAGGCTCCTGGGGCAGCGCGACCAGAGCAGCTCCTCCTTTGAC
CCCAGCCGGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGCAGCCTCTCTTATCCACATTCC
TGGGACCGGGACTCGGAGGCAAGAGCGGTGAGCGGGGCGCCTATGCCTCCTTCGGGAGAGACGCAGGCGT
GGGCGCCTGACTCAGGCTGGCTTCTGTCAAGCGAGCTGGCCCTCAACAGCCCCGGGCCCTGTCCCT
TCGGGCATGAAGGGACCTCCAGTACTACCCCTCCTACTCCGGCAGCTCCCGCGGAGAGCGGCAGACG
GCAGCCTAGACACGCAGCCAAAGAGTCCGGAAGTCCCGCCGGTCTTCCATCCTCGGTGTACCCACC
CAGCTCAGGTGAGACTACGGCAGGATGCCACCGCTACCCGTCCGCCAAGACCCCGAGCAGCACATAT
CCCGCCCCCTTACGTGGCAGATGGCAGCCTGCACCCCTCAGCCGAGCTCTGGAGTCCCCCGGGCCAGG
CGGGCTTCGGGCCATGCTGGGTGGGGCTCATCCCCGCTGCCCTCCCGCCCGGTAGCGGCCCGGTGGG
CAGCAGTGAAGCAGCAGCACGTTTGGTGGCCTGCACCAGCAGCAGCGTATGGGTACCAGCTGCATGGA
GCAGAGGTGAACGGTGGGCTCCCATCTGCATCCTCTTCTCCTCAGCCCCGGAGCCACGTACGGCGGGC
TCTCCAGCCACACCGCCCTGTCAAGCGGGCCGACAGCCTCCTGGGCTCCCGAGGGACCACAGCTGGCAG
CTCCGGGATGCCCTCGGCAAAGCACTGGCCTCGATCTACTCCCGGATCACTCAAGCAATAACTTCTCG
TCCAGCCCTTCTACCCCGTGGGCTCCCCCAGGGCTGGCAGGAACGTACAGTGGCCTCGAGCAGGAG
CCCCCGTGCCTTATCGCCAGTACGACGGGGTCTCCACGGCCTGCAGAGTAAGATAGAAGACCACCT
GGACGAGGCCATCCACGTGCTCCGACGCCACGCCGTGGGCACAGCCGGTGACATGCACACGCTGCTGCCT
GGCCACGGGGCGCTGGCCTCAGGTTTACCGGCCCATGTCACTGGGCGGGCGGCACGCAGGCTGGTTG
GAGGCAGCCACCCGAGGACGGCCTCGCAGGCAGCACCAGCCTCATGCACAACCACGCGGCCCTCCCCAG
CCAGCCAGGCACCCTCCCTGACCTGTCTCGGCCTCCCGACTCCTACAGTGGGCTAGGGCGAGCAGGTGCC
ACGGCGGCCGCCAGCGAGATCAAGCGGGAGGAGAAGGAGGACGAGGAGAACACGTACGCGGCTGACCACT
CGGAGGAGGAGAAGAAGGAGCTGAAGGCCCCCGGGCCCGGACCAGCAGTACGGACGAGGTGCTGTCCCT
GGAGGAGAAGACCTGAGGGACCGGAGAGGCGCATGGCCAATAACGCGGGGAGCGGGTGCAGGTGCGG
GATATTAACGAGGCTTCCGGGAGCTGGGGCGCATGTGCCAGATGCACCTCAAGTCGGACAAAGCGCAGA
CCAAGCTGCTCATCCTGCAGCAGCCGTGCAGGTATCCTGGGGCTGGAGCAGCAGGTGCGAGAGCGGAA
CCTGAATCCCAAAGCAGCCTGTTTGAACGCGGAGAAAGAGGAAAAGGTGTGAGGTGTGGTTGGAGACCC
CAGATGTTGCTTTCAGCTCCCCACCCAGGCTGAGCGAAGCCACAACCCCGCCGGGCACATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001136139.4](#)

RefSeq ORF: 1956 bp

Locus ID: 6929

UniProt ID: [P15923](#)

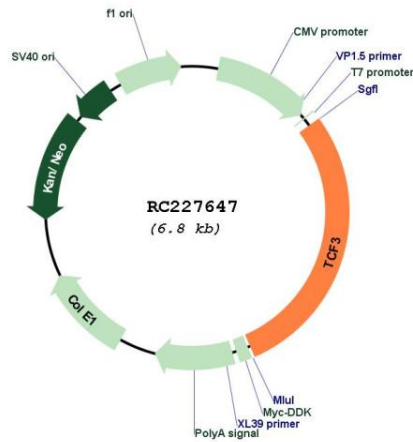
Cytogenetics: 19p13.3

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

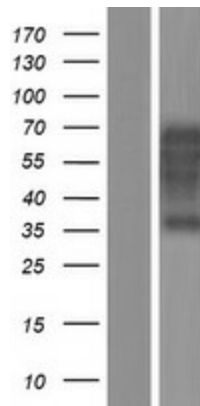
MW: 67.1 kDa

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]

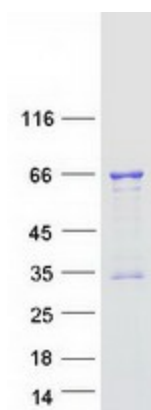
Product images:



Circular map for RC227647



Western blot validation of overexpression lysate (Cat# [LY427823]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227647 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TCF3 protein (Cat# [TP327647]). The protein was produced from HEK293T cells transfected with TCF3 cDNA clone (Cat# RC227647) using MegaTran 2.0 (Cat# [TT210002]).