

Product datasheet for **SC309467**

CBFA2T3 (NM_175931) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CBFA2T3 (NM_175931) Human Untagged Clone
Tag:	Tag Free
Symbol:	CBFA2T3
Synonyms:	ETO2; MTG16; MTGR2; RUNX1T3; ZMYND4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC309467 representing NM_175931.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCGGACTCCCAGCGGAGGTGAAGACGCAGCCCCGGTCCACACCCCCCAGCATGCCCCCCCACCG
CCTGCCGCATCCCAGGGGCCACACGCCCCCTCCTTACGCCACACACTGATGAACGGCAGCAGC
CACTACCAACAGCCATCAATGGTGCACCGTGCACACCCAAACGGCTTACGCAATGGCCCGGCCACCTCG
TCCACAGCCTCCTTGCCACACAGCACCTGCCCCAGCCTGCGGGGCCCGGCAGCTCAGCAAGCTCAAG
CGTTCCTCACCACACTGCAGCAGTTTGGCAGCGACATCTCCCCAGAGATTGGGGAGCGCGTGCGCACA
CTGGTGTGGGCCTGGTGAACCGACATTGACGATCGAGGAGTTTCATTCCAAGTTCAGGAGGCCACC
AACTTCCTCTGCGGCCGTTTGTATTCCCTTCTGAAGGCAAACCTGCCCTTGTGCAGCGGGAGCTC
CTGCACGTGCACGCCTGGCCAAGCAGACGCCCGCCAGTACTTGGCCAGCATGAGCAGCTCCTGCTG
GACGCCAGCGCCTCCTCCCCATCGACTCCTCAGAGCTGCTACTGGAAGTCAACGAGAACGGCAAGAGG
AGGACGCCCGACAGGACAAAGAGAACGGGTGAGACCGGACCCGCTGCACCCCGAGCACCTCAGAAA
CGGCCATGCACCCCTGAACCTGCCAGCGCTACAGCCCAAGCAACGGGCCACCGCAGCCACACCGCCG
CCGCACTACCGCCTGGAGGACATAGCCATGGCCACCCTCCGAGATGCCTACCGCCACCCAGACCCC
CGGGAGCTACGAGAGCGCCATCGGCCGCTTGTGGTGCCTGGGTCCCGGCAGGAAGAAGTGATCGACCAC
AAGCTCACAGAGCGTGAGTGGGCAGAAGAGTGAAGCACCTCAACAACCTCCTGAACTGCATCATGGAC
ATGGTGGAGAAGACGCGCGCTCGCTCACGGTGTGCGCAGGTGCCAGGAGGCCGACCGCGAGGAGCTC
AACCCTGGGCGCGCGCTACAGCGACGCCGAGGACACAAAGAAGGGCCCGCTCCCGCCGCGGCCCGG
CCCCGACGAGCTCCGCGGTCCCGAAGGGCCTCAGTAGACGTGCCTCGCGAGTTCTGCCGAGGACC
CTCACCGGTACGTGCTGAGGACATCTGGAGGAAGGTGAAGAGGCCGTGAATGAGGTGAAGCGGCAG
GCCATGTCGGAGCTGCAGAAAGCCGTGTCGGACGCGGAGCGCAAAGCGCACGAGCTCATCACCGGAG
CGTGCCAAGATGGAGCGGGCCCTGGCCGAGGCGAAGCGGCAGGCCTCCGAGGACGCCCTGACGGTATC
AACCAGCAGGAGGACTCCAGCGAGAGCTGCTGAACTGCGGGCGGAAAGCCAGTGAGACGTGCAGCGGC
TGCAACGCGGCACGCTACTGCGGGTCTTCTGCCAGCATCGGGACTGGGAGAAGCATCACACGTGTGT
GGCCAGAGCCTGCAGGGCCCCACAGCCGTGGTGGCCGACCCGGTGCCTGGACCGCCGAAGCCGCCAC
AGCCTGGGCCCTCCTGCTGTGGTGTGCCAGCCCAAGCAAGCCGGCTCTGCGGGGCTTCTCGC
CCCGGCTCCCCAGCCACCTGGCCACTGGACACCGTGCCCGCTGA
ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
  
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- Restriction Sites:** Sgfl-Mlul
- Plasmid Map:** □
- ACCN:** NM_175931
- Insert Size:** 1704 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:** 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_175931.2](#)

RefSeq Size: 4038 bp

RefSeq ORF: 1704 bp

Locus ID: 863

UniProt ID: [O75081](#)

Cytogenetics: 16q24.3

Protein Families: Transcription Factors

MW: 62.4 kDa

Gene Summary: This gene encodes a member of the myeloid translocation gene family which interact with DNA-bound transcription factors and recruit a range of corepressors to facilitate transcriptional repression. The t(16;21)(q24;q22) translocation is one of the less common karyotypic abnormalities in acute myeloid leukemia. The translocation produces a chimeric gene made up of the 5'-region of the runt-related transcription factor 1 gene fused to the 3'-region of this gene. This gene is also a putative breast tumor suppressor. Alternative splicing results in transcript variants. [provided by RefSeq, Nov 2010]

Transcript Variant: This variant (2) differs in the 5' UTR and lacks an alternate in-frame coding exon, compared to variant 1. These differences cause translation initiation at a downstream start codon and result in an isoform (2) that lacks an internal segment and has a shorter N-terminus, compared to isoform 1. Variant 2 is also known as MTG16b. 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.