

## Product datasheet for **SC314335**

### **CBFA2T3 (NM\_005187) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CBFA2T3 (NM_005187) Human Untagged Clone
Tag:	Tag Free
Symbol:	CBFA2T3
Synonyms:	ETO2; MTG16; MTGR2; RUNX1T3; ZMYND4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_005187 edited  
 ATGCCGGCTTCAAGACTGAGGGACAGGGCAGCCAGTTCAGCCTCGGGATCCACCTGTGGC  
 TCCATGTCCCAGACGCACCCTGTGCTGGAGAGCGGCTCCTGGCATCTGCCGGCTGCTCC  
 GCACCCCGGGGTCCCAGGAAGGGCGGCCAGCCCCAGTGGACAGGAAAGCTAAGGCCTCA  
 GCGATGCCGGACTCCCCAGCGGAGGTGAAGACGCAGCCCCGGTCCACACCCCCAGCATG  
 CCGCCCCACCGCTGCCGCATCCCAGGGGGCCACACGCCCCCTCCTTCACGCCACAC  
 ACACATCGAGAGGACGGGCTGCGACGCTGCCCCACGGCCGTTTTTCATGGCTGCTAAAA  
 TGGTCTATGGTCTGTCTTGTGATGAACGGCAGCAGCCACTCACCAACAGCCATCAATGGT  
 GCACCGTGCACACCCAACGGCTTCAGCAATGGCCCGGCCACCTCGTCCACAGCCTCCTTG  
 TCCACACAGCACCTGCCCCAGCCTGCGGGGCCCGGCAGCTCAGCAAGCTCAAGCGCTTC  
 CTCACCACACTGCAGCAGTTTGGCAGCGACATCTCCCAGAGATTGGGGAGCGCTGCGC  
 ACACTGGTGTGGGCTGGTGAACCTGACATTGACGATCGAGGAGTTTCATTCCAAGCTT  
 CAGGAGGCCACCAACTCCCTCTGCGGCCGCTTGTCATTCCCTTCTGAAGGCAAACCTG  
 CCCTTGCTGCAGCGGGAGCTCCTGCACTGTGCACGCTGGCCAAGCAGACGCCCGCCAG  
 TACTTGGCCAGCATGAGCAGCTCCTGTGGACGCCAGCGCTCCTCCCCATCGACTCC  
 TCAGAGCTGCTACTGGAAGTCAACGAGAACGGCAAGAGGAGGACGCCCGACAGGACAAA  
 GAGAACGGGTGACACCGGACCCGCTGCACCCCGAGCACCTCAGCAAACGGCCATGCACC  
 CTGAACCTGCCAGCGCTACAGCCCAGCAACGGGCCACCGCAGCCACACCGCCGCCG  
 CACTACCGCTGGAGGACATAGCCATGGCCACCACTTCCGAGATGCCTACCGCCACCCA  
 GACCCCGGGAGCTACGAGAGCGCATCGGCCGCTTGTGGTGCCTGGGTCCCGGCAGGAA  
 GAAGTGATCGACCACAAGCTCACAGAGCGTGAGTGGGCAGAAGAGTGGAAGCACCTCAAC  
 AACCTCCTGAACATGCATCATGGACATGGTGGAGAAGACCGGCGCTCGCTCACGGTGCTG  
 CGCAGGTGCCAGGAGCCGACCGCGAGGAGCTCAACCACTGGGGCGGGCTACAGCGAC  
 GCCGAGGACACAAAGAAGGGCCCGCTCCCGCCGCGGCCCGCCCGCAGCAGCTCCGCC  
 GGTCCCGAAGGGCTCAGCTAGACGTGCCTCGCGAGTTCTGCCGAGGACCTCACCGGC  
 TACGTGCCTGAGGACATCTGGAGGAAGGCTGAAGAGGCCGTGAATGAGGTGAAGCGGCAG  
 GCCATGTCGGAGCTGCAGAAAGCCGTGTCGGACCGGAGCGCAAAGCGCACGAGCTCATC  
 ACCACGGAGCGTGCCAAGATGGAGCGGGCCCTGGCCGAGGCGAAGCGGCAGGCCTCCGAG  
 GACGCCCTGACGGTCATCAACCAGCAGGAGGACTCCAGCGAGAGCTGCTGGAACGCGGG  
 CGGAAAGCCAGTGAGACGTGCAGCGGCTGCAACCGGCACGCTACTGCGGGTCTTCTGC  
 CAGCATCGGGACTGGGAGAAGCATCACACGTGTGTGGCCAGAGCCTGCAGGGCCCCACA  
 GCCGTGGTGGCCGACCCGGTGCCTGGACCGCCGAAGCCGCCACAGCCTGGGCCCTCC  
 CTGCCTGTGGGTGCTGCCAGCCCCAGCAAGCCGGCTCTGCGGGGCTTCTCGCCCCGGC  
 TCCCCAGCCACCTGGCCCACTGGACACCGTGCCTCGCTGA

- Restriction Sites:** Please inquire
- ACCN:** NM\_005187
- Insert Size:** 2000 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 contain one SNP compared with NM\_005187.4.
- 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\\_005187.4](#), [NP\\_005178.4](#)

**RefSeq Size:** 4265 bp

**RefSeq ORF:** 1962 bp

**Locus ID:** 863

**UniProt ID:** [O75081](#)

**Cytogenetics:** 16q24.3

**Domains:** zf-MYND, TAFH

**Protein Families:** Transcription Factors

**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 (1) represents the longer transcript, encodes the longer isoform (1) and is also known as MTG16a. 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.