

## Product datasheet for **RC223730**

### **CBFA2T3 (NM\_175931) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | CBFA2T3 (NM_175931) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                    |
| 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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**ORF Nucleotide Sequence:**

>RC223730 representing NM\_175931  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCGACTCCCAGCGGAGGTGAAGACGCAGCCCCGGTCCACACCCCCAGCATGCCGCCCCACCGC  
 CTGCCGATCCCAGGGGCCACACGCCCCCTCTTCAGGCCACACACTGATGAACGGCAGCAGCCA  
 CTCACCAACAGCCATCAATGGTGACCGTGCACACCCAACGGCTTCAGCAATGGCCCGGCCACCTCGTCC  
 ACAGCCTCCTTGTCCACACAGCACCTGCCCCAGCCTGCGGGGCCGGCAGCTCAGCAAGCTCAAGCGCT  
 TCCTCACCACACTGCAGCAGTTTGGCAGCGACATCTCCCAGAGATTGGGGAGCGCTGCGCACACTGGT  
 GCTGGCCTGGTGAACCTGCATTTGACGATCGAGGAGTTTCATTCCAAGCTTCAGGAGGCCACCACTTC  
 CCTCTGCGGCCGTTTGTATTCCCTTCTGAAGGCAAACCTGCCCTTGTGCAGCGGGAGCTCTGCACT  
 GTGCACGCTGGCAAGCAGACGCCCGCCAGTACTTGGCCAGCATGAGCAGCTCCTGCTGGACGCCAG  
 CGCTCCTCCCCATCGACTCCTCAGAGCTGCTACTGGAAGTCAACGAGAACGGCAAGAGGAGGACGCC  
 GACAGGACCAAAGAGAACGGGTACAGACCGGACCCGCTGCACCCGAGCAGCTCAGCAAACGGCCATGCA  
 CCCTGAACCTGCCAGCGCTACAGCCCAGCAACGGGCCACCGCAGCCACACCGCCGCCACTACCG  
 CCTGGAGGACATAGCCATGGCCACCACTTCCGAGATGCCTACCGCCACCCAGACCCCGGGAGCTACGA  
 GAGCGCATCGGCCGCTTGTGGTGCCTGGTCCCAGGAGAAAGTATCGACCACAAGCTCACAGAGC  
 GTGAGTGGGCAGAAGAGTGAAGCACCTCAACAACCTCCTGAACCTGCATCATGGACATGGTGGAGAAGAC  
 GCGGCCCTCGCTACGGTGTGCGCAGGTGCCAGGAGGCCAGCCGCGAGGAGCTCAACACTGGGCGCGG  
 CGCTACAGCGACGCCGAGGACACAAAGAAGGGCCCGCTCCCGCCGCGGCCGGCCCGCAGCAGCTCCG  
 CCGGTCGGAAGGCGCTCAGCTAGACGTGCTCGCGAGTTCCTGCCGAGGACCTCACCGCTACGTGCC  
 TGAGGACATCTGGAGGAAGGCTGAAGAGGCCGTGAATGAGGTGAAGCGGCAGGCCATGTCGGAGCTGCAG  
 AAAGCCGTGTCGGACGCGGAGCGCAAAGCGCACGAGCTCATCACCGAGCGTGCACAGATGGAGCGGG  
 CCCTGGCCGAGGCGAAGCGGCAGGCCTCCGAGGACGCCCTGACGGTGCATCAACAGCAGGAGGACTCCAG  
 CGAGAGCTGCTGGAACCTGCGGGCGGAAAGCCAGTGAAGCTGCAGCGGCTGCAACGCGGCACGCTACTGC  
 GGGTCTTCTGCCAGCATCGGGACTGGGAGAAGCATCACACGTGTGTGGCCAGAGCCTGCAGGGCCCCA  
 CAGCCGTGGTGGCCGACCCGGTGCCTGGACCGCCGAAGCGCCACAGCCTGGGCCCTCCTGCCTGT  
 GGGTGTGCCAGCCCAGCGAAGCCGGCTGCGGGGCCCTCTCGCCCCGGCTCCCCAGCCACCTGGC  
 CCACTGGACACCGTGCCCGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC223730 representing NM\_175931  
 Red=Cloning site Green=Tags(s)

MPDSPAEVKTQPRSTPPSPMPPPPAASQGATRPPSFTPHITLMNGSSHSPTAINGAPCTPNPNSNGPATSS  
 TASLSTQHLPPACGARQLSKLKRFLTTLQQFGSDISPEIGERVRTLVLGLVNSTLTIEEFHSLKQEATNF  
 PLRPFVIFFLKANLPLLQRELLHARLAKQTPAQYLAQHEQLLLDASASSPIDSSELLLEVNENGRRT  
 DRTKENGSDRDLHPEHLKRPCTLNPAQRYSNPPPTPPPHYRLEDIAMAHHFRDAYRHPDPRELR  
 ERHRPLVVPGRQEEVIDHKLTEREWAEWKHLNLLNCLIMDMVEKTRRSLTVLRRQCQADREELNHWAR  
 RYSDAEDTKKGPAPAAARPRSSAGPEGPQLDVPREFLPRTLTYVPEDIWRKAEAVNEVKRQAMSELQ  
 KAVSDAERKAHELITTERAKMERALAEAKRQASEDALTVINQQEDSSESCWNCGRKASETCSGCNAARYC  
 GSFCQHRDWEKHHHVCGQSLQGPTAVVADVPVGPPEAAHSLGPSLPVGAASPSEAGSAGSRPGSPSP  
 PLDTVPR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8067\\_f09.zip](https://cdn.origene.com/chromatograms/mk8067_f09.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_175931

**ORF Size:** 1701 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_175931.3](#)

**RefSeq Size:** 4034 bp

**RefSeq ORF:** 1704 bp

**Locus ID:** 863

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

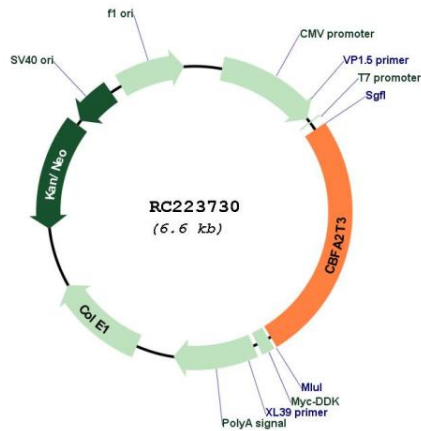
**Cytogenetics:** 16q24.3

**Protein Families:** Transcription Factors

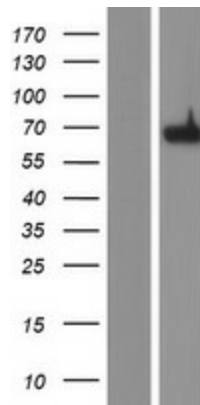
**MW:** 62.2 kDa

**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]

**Product images:**



Circular map for RC223730



Western blot validation of overexpression lysate (Cat# [LY406215]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223730 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).