

## Product datasheet for **RG223730**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CBFA2T3 (NM_175931) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CBFA2T3
Synonyms:	ETO2; MTG16; MTGR2; RUNX1T3; ZMYND4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG223730 representing NM\_175931  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCGACTCCCAGCGGAGGTGAAGACGCAGCCCCGGTCCACACCCCCAGCATGCCGCCCCACCGC  
 CTGCCGATCCCAGGGGCCACACGCCCCCTCTTACGCCACACACTGATGAACGGCAGCAGCCA  
 CTCACCAACAGCCATCAATGGTGACCGTGCACACCCAACGGCTTCAGCAATGGCCCGGCCACCTCGTCC  
 ACAGCCTCCTTGTCCACACAGCACCTGCCCCAGCCTGCGGGGCCGGCAGCTCAGCAAGCTCAAGCGCT  
 TCCTCACCACACTGCAGCAGTTTGGCAGCGACATCTCCCAGAGATTGGGGAGCGCTGCGCACACTGGT  
 GCTGGCCTGGTGAACCTGCATTTGACGATCGAGGAGTTTCATTCCAAGCTTCAGGAGGCCACCACTTC  
 CCTCTGCGGCCGTTTGTATTCCCTTCTGAAGGCAAACCTGCCCTTGTGCAGCGGGAGCTCTGCACT  
 GTGCACGCTGGCAAGCAGACGCCCGCCAGTACTTGGCCAGCATGAGCAGCTCCTGCTGGACGCCAG  
 CGCTCCTCCCCATCGACTCCTCAGAGCTGCTACTGGAAGTCAACGAGAACGGCAAGAGGAGGACGCC  
 GACAGGACCAAAGAGAACGGGTACAGCCCGACCCGCTGCACCCGAGCACCTCAGCAAACGGCCATGCA  
 CCCTGAACCTGCCAGCGCTACAGCCCCAGCAACGGGCCACCGCAGCCACACCCGCCCGCCTACTCCG  
 CCTGGAGGACATAGCCATGGCCACCACTTCCGAGATGCCTACCGCCACCCAGACCCCGGGAGCTACGA  
 GAGCGCCATCGGCCGCTTGTGGTGCCTGGTCCCAGGAGAAAGTGTACGACCACAAGCTCACAGAGC  
 GTGAGTGGGCAGAAGAGTGAAGCACCTCAACAACCTCCTGAACCTGCATCATGGACATGGTGGAGAAGAC  
 GCGGGCTCGCTACGGTGTGCGCAGGTGCCAGGAGGCCAGCCGCGAGGAGCTCAACACTGGGCGCGG  
 CGCTACAGCGACGCCGAGGACACAAAGAAGGGCCCGCTCCCGCCGCGGCCGGCCCGCCAGCAGCTCCG  
 CCGTCCCGAAGGGCTCAGCTAGACGTGCTCGCGAGTTCCTGCCGAGGACCTCACCGCTACGTGCC  
 TGAGGACATCTGGAGGAAGGCTGAAGAGGCGTGAATGAGGTGAAGCGGCAGGCCATGTCGGAGCTGCAG  
 AAAGCCGTGTCGGACGCGGAGCGCAAAGCGCACGAGCTCATCACCGAGCGTGCCTCAAGATGGAGCGGG  
 CCCTGGCCGAGGCGAAGCGGCAGGCCTCCGAGGACGCCCTGACGGTGCATCAACAGCAGGAGGACTCCAG  
 CGAGAGCTGTGGAACCTGCGGGCGGAAAGCCAGTGAAGCTGCAGCGGCTGCAACGCGGCACGCTACTGC  
 GGGTCTTCTGCCAGCATCGGGACTGGGAGAAGCATCACACGTGTGTGGCCAGAGCCTGCAGGGCCCCA  
 CAGCCGTGGTGGCCGACCCGGTGCCTGGACCGCCGAAGCGCCACAGCCTGGGCCCTCCTGCCTGT  
 GGGTGTGCCAGCCCAGCGAAGCCGGCTGCGGGGCTTCTCGCCCCGGCTCCCCAGCCACCTGGC  
 CCACTGGACACCGTGCCCGC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG223730 representing NM\_175931  
 Red=Cloning site Green=Tags(s)

MPDSPAEVKTQPRSTPPSPMPPPAASQGATRPPSFTPHLTMNGSSHSPTAINGAPCTPNPFSNGPATSS  
 TASLSTQHLPPACGARQLSKLKRFLTTLQQFGSDISPEIGERVRTLVLGLVNSTLIEEFHSLKQEATNF  
 PLRPFVIPFLKANLPLLQRELLHARLAKQTPAQYLAQHEQLLLDASASSPIDSSELLLEVNENGRRT  
 DRTKENGSDRDLHPEHLKRPCTLNPAQRYSPSNGPPQTPPPHYRLEDIAMAHFRDAYRHPDPRELR  
 ERHRPLVVPGRQEEVIDHKLTEREWAEWKHLNLLNCLIMDMVEKTRRSLTVLRRQEAEREELNHWAR  
 RYSDAEDTKKGPAPAAARPRSSAGPEGPQLDVPREFLPRTLGYVPEDIWRKAEAVNEVKRQAMSELQ  
 KAVSDAERKAHELITTEAKMERALAEAKRQASEDALTVINQEDSSESCWNCGRKASETCSGCNAARYC  
 GSFCQHRDWEKHHHVCGQSLQGPTAVVADVPVGPPEAAHSLGPSLPVGAASPSEAGSAGPSRPGSPSPG  
 PLDTVPR

**TRTRPLE - GFP Tag - V**

**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

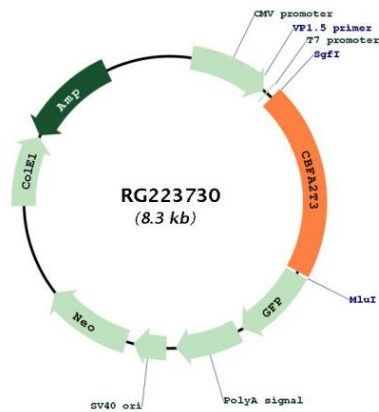
**UniProt ID:** [O75081](#)

**Cytogenetics:** 16q24.3

**Protein Families:** Transcription Factors

**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 RG223730