

## Product datasheet for **MC218937**

### **Cbfa2t3 (NM\_177289) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cbfa2t3 (NM_177289) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cbfa2t3
Synonyms:	A630044F12Rik; AI465270; AW229127; Cbfa2t3h; ETO-2; Eto2; MTGR2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218937 representing NM\_177289  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAGACTCCCCGGCTGAAGTGAAGACGCAGCCCCGGTCCACACCCCCAGCATGCCGCCCCACCTC  
 CCACCTCATCCCAGGGAGCCACACGACCACCTCCTTCACACCTCACACTGATGAACGGCAGCAGCCA  
 CTCACCCACGGCCATCCACGGTGCCCCATCTACACCCAATGGCTTCAGCAACGGCCAGCCACCTCATCC  
 ACGGCCTCGTCTCCACACAGCACCTGCCCGGGCGTGCAGGACGCGCAGCTCAGCAAGCTTAAGCGTT  
 TCCTCACCACCCTACAGCAGTTTGGCAGTGACATCTCACCTGAGATCGGGGAGCGCGTGCACACTGGT  
 GCTGGGCTGGTGAACCTCACTGACGATCGAAGAGTTTCATGCCAAGCTCCAGGAAGCCACCACTTT  
 CCACTGAGGCCGTTTGTATCCCTTTTCTGAAGGCTAATCTTCCACTGCTGCAGCGTGAGCTCCTGCACT  
 GTGCCCGCTGGCCAAACAGACACCTGCCAGTACCTGGCCAGCAGAACAGCTGCTGCTGGACGCCAG  
 CGCCACCTCCCCGTGACTCGTCTGAGCTCCTGCTGGAAGTCAACGAGAACGGCAAAGGAGAACCT  
 GACAGGACCAAAGAGAATGGATCAGACCCGGACCTCTGCACCCGACCACCTCAGTAAGCGGTCTGCA  
 CCCTGAGCCCCGCCAGCGCTGCAGCCCCAGCAATGGGCTGCCCCACCCGACGCCACCCCAACCCCGCA  
 CTATCGCCTGGAGGACATGGCCATGGCCACCATTTCCGGGACTCCTACCGCCATCCTGATCCCCGAGAG  
 CTACGGGAACGCCACCGGCCCTGGCCATACCTGGGTCTCGACAAGAAGAAGTGATTGATCACAGGCTCA  
 CAGAACCGGAGTGGGCAGAAGATGGAAGCACCTCAACAGTCTTCTGAACTGCATCATGGACATGGTGA  
 GAAGACCCGGCGATCCCTCACCGTCTGCGCCGGTGTGAGGAGCCGACCGTGAGGAACTCAACCACTGG  
 ATCCGGTGCTACAGTGACTCTGAGGAGGGGAAGAAGGCCCTACCCCATCTCTGCCGGTCCCTCAACA  
 GCTGCAGTGGCCCTGAGGGTCTCAGTAGATGTTTACCAGGACTTCACGCCAGGACCTGTCTGGTA  
 CATGCCTGAAGAGATCTGGAGGAAGGCTGAAGAAGCTGTGAATGAGGTGAAGCGCCAGGCCATGTCAGAA  
 CTACAGAAAGCTGTGTCTGATGCGGAGCGCAAAGCCCATGAACTCATACCACAGAGCGTCCCAAGATGG  
 AACGAGCCCTGGCGGAGGCCAAGCGACAGGCTCGGAGGATGCCCTGACTGTGATCAACCAGCAAGAGGA  
 CTCCAGCGAGAGCTGCTGGAAGTGGGGCGCAAGGCCAGCGAGACGTGCAGTGGCTGTAACGCCGCCGC  
 TACTGCGGGTCTTCTGTGAGCACAAGACTGGGAGAACACCATCACGTGTGCGCCAGAGTCTGCAGG  
 GCCCGCGGGTGCAGTGGCTGACCCACTACCTGGACAGCCTGACGCCACTGCCAGCCCCAGCGAAGCCGG  
 CTCGGCAGGGCCCTCTGTCCTGCTCTCCGGGCCGCCAGGCCGCTGGACGCTGCTGTGCCCCG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_177289

**Insert Size:** 1680 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).

**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\\_177289.1](#), [NP\\_796263.1](#)

**RefSeq Size:** 7600 bp

**RefSeq ORF:** 1680 bp

**Locus ID:** 12398

**UniProt ID:** [O54972](#)

**Cytogenetics:** 8 E1

**Gene Summary:** Transcriptional corepressor which facilitates transcriptional repression via its association with DNA-binding transcription factors and recruitment of other corepressors and histone-modifying enzymes. Can repress the expression of MMP7 in a ZBTB33-dependent manner. Reduces the protein levels and stability of the transcriptional regulator HIF1A; interacts with EGLN1 and promotes the HIF1A prolyl hydroxylation-dependent ubiquitination and proteasomal degradation pathway. Contributes to inhibition of glycolysis and stimulation of mitochondrial respiration by down-regulating the expression of glycolytic genes including PFKFB3, PFKFB4, PDK1, PFKP, LDHA and HK1 which are direct targets of HIF1A (By similarity). Regulates the proliferation and the differentiation of erythroid progenitors by repressing the expression of TAL1 target genes (PubMed:16407974). Plays a role in granulocyte differentiation (PubMed:15231665).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR and lacks two in-frame portions of the 5' coding region compared to variant 1. The resulting protein (isoform 3) is shorter and has a distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.