

Product datasheet for **MC219793**

Cbfa2t3 (NM_009824) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbfa2t3 (NM_009824) 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: >MC219793 representing NM_009824
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCAGGCATCCACCACCACTCTGGAGAGTGGGGCACTCCTCTCGGGACCCCGGGTCTTCAGAATG
 GAAGCCCAGCTCACAGGAAGGAGAAGGCTGCAGCAATGCCAGACTCCCCGGCTGAAGTGAAGACGCAGCC
 CCGGTCCACACCCCCAGCATGCCGCCCCACCTCCACCTCATCCAGGGAGCCACACGACCACCTCC
 TTCACACCTCACACATGGCGAGGATGGACCTGCGACGTCTTCCCATGGCCGTTTCCACGGTGTCT
 TAAAGTGGTCCATGGTCTGTCTTGTGAACGGCAGCAGCCACTCACCCAGGCCATCCACGGTCCCC
 ATCTACACCCAATGGCTTCAGCAACGGCCAGCCACCTCATCCACGGCTCGCTCTCCACACAGCACCTG
 CCCCCGGCTGCCGGGCACGGCAGCTCAGCAAGCTTAAGCGTTTCTCACCACCTACAGCAGTTTGGCA
 GTGACATCTCACCTGAGATCGGGGAGCGGTGCGCACACTGGTGTGGGCTGGTGAACCAACTCTGAC
 GATCGAAGAGTTTCATGCCAAGTCCAGGAAGCCACCAACTTCCACTGAGGCCGTTTGTATCCCTTTT
 CTGAAGGTAATCTTCCACTGCTGCAGCGTGAGCTCCTGCACTGTGCCCGCTGGCCAAACAGACACCTG
 CCCAGTACCTGGCCCAGCACGAACAGCTGCTGCTGGACGCCAGCGCCACCTCCCCGTGCGACTCGTCTGA
 GCTCCTGCTGGAAGTCAACGAGAACGGCAAAAGGAGAACCTGCAGGACCAAAGAGAATGGATCAGAC
 CGGGACCTCTGCACCCCGACCCTCAGTAAGCGGTCTGCACCTGAGCCCCGCCAGCGCTGCAGCC
 CCAGCAATGGGCTGCCACCCGACGCCACCCCAACCCCGCACTATCGCTGGAGGACATGGCCATGGC
 CCACCATTTCCGGGACTCCTACCGCCATCCTGATCCCCGAGAGCTACGGGAACGCCACCGGCCCTGGCC
 ATACCTGGTCTCGACAAGAAGAAGTATTGATCACAGGCTCACAGAACGCGAGTGGGCAGAAGAATGGA
 AGCACCTCAACAGTCTTCTGAACCTGCATCATGGACATGGTGGAGAAGACCCGGCGATCCCTCACCGTCT
 GCGCCGGTGTGAGGAGGCCGACCGTGAGGAACCAACCACTGGATCCGGTGTACAGTACTCTGAGGAG
 GGAAGAAGGGCCCTACCCCATCTCTGCCCGTCCCTCAACAGCTGCAGTGGCCCTGAGGGTCTCAGC
 TAGATGTTACCGGGACTTCACGCCAGGACCCTGTCTGGCTACATGCCTGAAGAGATCTGGAGGAAGGC
 TGAAGAAGCTGTGAATGAGGTGAAGCGCCAGGCCATGTCAGAACTACAGAAAGCTGTGTCTGATGCGGAG
 CGCAAAGCCCATGAACCTCATCACACAGAGCGTCCCAAGATGGAACGAGCCCTGGCGGAGCCAAGCGAC
 AGGCCTCGGAGGATGCCCTGACTGTCATCAACCAGCAAGAGGACTCCAGCGAGAGCTGCTGGAACGCGG
 GCGCAAGGCCAGCGAGAGCTGCACTGTAAACGCCCGCTACTGCGGGTCTTCTGTCAGCACAAA
 GACTGGGAGAAACACCATCACGTGTGCGCCAGAGTCTGCAGGGCCCCGGCTGCAGTGGCTGACCCAC
 TACCTGGACAGCCTGACGCCACTGCCAGCCCCAGCGAAGCCGGCTCGGCAGGGCCCTCTCGTCCCTGCTC
 TCGGGGGCCGACGCCCCGCTGGACGCTGCTGTGCCCCGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_009824

Insert Size: 1863 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:	<ol style="list-style-type: none">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:	<u>NM_009824.2</u> , <u>NP_033954.2</u>
RefSeq Size:	7659 bp
RefSeq ORF:	1863 bp
Locus ID:	12398
UniProt ID:	<u>O54972</u>
Cytogenetics:	8 E1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest protein (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.</p>