

Product datasheet for **MC219266**

Cbfa2t3 (NM_001109873) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbfa2t3 (NM_001109873) 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: >MC219266 representing NM_001109873
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGACTCCCCGGCTGAAGTGAAGACGCAGCCCCGGTCCACACCCCCAGCATGCCGCCCCACCTC
 CCACCTCATCCCAGGGAGCCACACGACCACCCTCCTTCACACCTCACACACATGGCGAGGATGGACCTGC
 GACGTCTCTCCCATGGCCGTTTCCACGGCTGCTTAAAGTGGTCCATGGTCTGTCTCTTGTGAAACGGC
 AGCAGCCACTCACCCACGGCCATCCACGGTGCCCATCTACACCAATGGCTTACGAAACGGCCAGCCA
 CCTCATCCACGGCCTCGCTCTCCACACAGCACCTGCCCGGGCGTGGGGGCACGGCAGCTCAGCAAGCT
 TAAGCGTTTCTCACCACCCTACAGCAGTTTGGCAGTGACATCTCACCTGAGATCGGGGAGCGCGTGGC
 AACTGGTGTGGCCTGGTGAACCTGACGATCGAAGAGTTTCATGCCAAGCTCCAGGAAGCCA
 CCAACTTCCACTGAGGCCGTTTGTATCCCTTTCTGAAGGCTAATCTTCCACTGCTGCAGCGTGAGCT
 CCTGCACTGTGCCCGCTGGCCAAACAGACACCTGCCAGTACCTGGCCAGCACGAACAGCTGCTGCTG
 GACGCCAGCGCCACCTCCCTGTGACTCGTCTGAGCTCCTGCTGGAAGTCAACGAGAACGGCAAAGGA
 GAACACCTGACAGGACAAAGAGAATGGATCAGACCGGGACCCTCTGCACCCCGACCACCTCAGTAAAGC
 GTCTGCACCCCTGAGCCCGCCAGCGCTGCAGCCCCAGCAATGGGCTGCCACCCGACGCCACCCCA
 CCCCCGACTATCGCTGGAGGACATGGCCATGGCCACCATTTCCGGGACTCCTACCGCCATCCTGATC
 CCCGAGAGCTACGGGAACGCCACCGGCCCTGGCCATACCTGGTCTCGACAAGAAGAAGTGATTGATCA
 CAGGCTCAGAACCGGAGTGGCAGAAGAATGGAAGCACCTCAACAGTCTTCTGAACTGCATCATGGAC
 ATGGTGGAGAAGACCGCGATCCCTCACCGTCTGCGCCGGTGTGAGGAGGGGAAGAAGGGCCCTACCCCATCTGCCCCGTC
 ACCACTGGATCCGGTGCTACAGTGACTCTGAGGAGGGGAAGAAGGGCCCTACCCCATCTGCCCCGTC
 CCTCAACAGCTGCAGTGGCCCTGAGGGTCTCAGCTAGATGTTACCGGGACTTACGCCAGGACCCTG
 TCTGGCTACATGCCTGAAGAGATCTGGAGAAAGCTGAAGAAGCTGTGAATGAGGTGAAGCGCCAGGCCA
 TGTGAGAACTACAGAAAGCTGTGTCTGATGCGGAGCGCAAAGCCCATGAACTCATCACCACAGAGCGTGC
 CAAGATGGAACGAGCCCTGGCGGAGGCCAAGCGACAGGCCTCGGAGGATGCCCTGACTGTATCAACCG
 CAAGAGGACTCCAGCGAGAGCTGCTGAACTGCGGGCGCAAGGCCAGCGAGAGCTGCAGTGGCTGTAACG
 CCGCCCGTACTGCGGGTCTTCTGTGAGCACAAGACTGGGAGAAACACCATCACGTGTGCGGCCAGAG
 TCTGCAGGGCCCCGCGGTGCAGTGGCTGACCCACTACCTGGACAGCCTGACGCCACTGCCAGCCCAGC
 GAAGCCGGCTCGCAGGGCCCTCTCGTCCCTGCTCCTGGGGCCGCCAGGCCGCTGGACGCTGCTGTGC
 CCGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001109873

Insert Size: 1758 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_001109873.1](#), [NP_001103343.1](#)

RefSeq Size: 7678 bp

RefSeq ORF: 1758 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 (2) differs in the 5' UTR and lacks an in-frame portion of the 5' coding region compared to variant 1. The resulting protein (isoform 2) 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.