

Product datasheet for **MC202804**

Cbfa2t2 (NM_172860) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cbfa2t2 (NM_172860) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cbfa2t2
Synonyms: A430091M07; C330013D05Rik; Cbfa2t2h; MTGR1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC064679 sequence for NM_172860
 GCGGGTGCAGGTCCCGCCTGCGCCTGCGGAGGGCTCAGGCAGAGGGTCAAGCGAGCGGCCTCGCGAC
 AGACTGCGCTCCCGATGGTGGCGTCCCTGGAGCGGCCCTTCCAAC TTGGTTGTGAGAAAAGGGTGC
 CAGCAATGCCTGGATCGCCTGTGGAAGTGAAGATACAGTCAAGATCCTCACCTCCCATCATGCCACCCCT
 CCCACCAATAAATCCTGGAGGACCGAGGCCAGTGTCTTTACTCTACAGCATTAAAGCAATGGCATCAAC
 CATTCCCCTCCTACCCTGAATGGTGCCCATCGCCACCACAGAGATTCAGCAATGGGCCTGCCTCTCCA
 CATCGTCAGCACTAACGAATCAACAGCTGCCGGCTACTTGTGGTCTCGGCAGCTCAGCAAGTTGAAACG
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 CCTCTGTGGCCAGAGTCTACATGGCCACAGTCCCACAGCCAGAGCAGGCCACTGCTCCCTGGAGGGCGG
 GGCTCAGCCAGGCTGCTGACTGCAAGTGTGCCAGCCAGCCCTGGACAAGACCTCAGCTACCACCTCAC



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GGTCTCAACACCTGCCTCTGTGACAGCCATTGATGCCAACGGGCTCTAAGCTACAGACTCCACCTGTCC
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 CTTATACCAAAAAGGGCATGTGCAGCTGGTGTCTGCCAGGGACAGCCAGTCCCTGCCTTGTGGTCCCA
 GGAAGAAGCTGCAACAATTCAGTGAATGATTAAGGGCTGTTTGATAATAAGGCCTTCGTTCCACTCCTG
 TGGCTTTCCAAGTTCTAATGAGGCTACAAAGGCTCCATCCATACAGAAAACCAATAATGTAAATAAAG
 CCAATCCTGCAAGCATGGTTTGCAGAGGCGGGTGAATGTGAAGCCACCCGAGGATGCATTTGAGTC
 TGGTTTTCTGTGCTTTGTCATTTGACTCAGTAGGAACCTTTGTTACTTAACTCTGTGCATAACTTATTT
 AATGTACTGTATAAATGAACCAAACTGTAAATATGTATTTAGTTTGTCTACTTAAAGTAGTTAATAA
 AAATGCTATATTCCTTTTCTGACTCAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Ascl-NotI
- ACCN:** NM_172860
- Insert Size:** 1785 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:** [BC064679](#), [AAH64679](#)
- RefSeq Size:** 6067 bp
- RefSeq ORF:** 1785 bp
- Locus ID:** 12396
- UniProt ID:** [O70374](#)
- Cytogenetics:** 2 H1

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. Via association with PRDM14 is involved in regulation of embryonic stem cell (ESC) pluripotency. Involved in primordial germ cell (PCG) formation (PubMed:27281218). Stabilizes PRDM14 and OCT4 on chromatin in a homooligomerization-dependent manner. Can repress the expression of MMP7 in a ZBTB33-dependent manner (By similarity). Through heteromerization with CBFA2T3/MTG16 may be involved in regulation of the proliferation and the differentiation of erythroid progenitors by repressing the expression of TAL1 target genes (PubMed:19799863). Required for the maintenance of the secretory cell lineage in the small intestine (PubMed:16227606). Can inhibit Notch signaling probably by association with RBPJ and may be involved in GF11-mediated Paneth cell differentiation (PubMed:25398765). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest protein (isoform 1).