

Product datasheet for **MC204426**

Cbfb (NM_022309) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbfb (NM_022309) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cbfb
Synonyms:	AI893578; PEA2; Pebp2; PEBP2b; Pebpb2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC026749
 CCGACGCGTGGGCGCGGGTGGGCGGTCAAGGCGGTGAGCACCAGGAGCCGCCAGCGGGTGCCCGCGCGAG
 CCTGGGGAGCGCGGCCGGCCGGCGCGGCTGAGGGCGGGAAGATGCCGCGCGTCCCGGACCAGAGGA
 GCAAGTTCGAGAACGAGGAGTCTTCAGGAAGCTGAGCCGCGAGTGCGAGATTAAGTACACGGGCTTCAG
 GGACCGGCCCCACGAGGAGCGCCAGACAGCTTCCAGAACGCCTGCCGCGACGGTCGCTCGGAGATCGCT
 TTTGTGGCTACAGGAACCAATCTGTCTCCAGTTTTTCCGGCCAGCTGGCAGGGAGAACAGCGACAAA
 CACCTAGCCGGGAATATGTCGACTTAGAGAGAGAAGCAGGCAAGGTATACTTGAAGGCTCCCATGATTCT
 GAATGGAGTGTGTATATGGAAGGGCTGGATTGATCTCCACAGATTGGATGGTATGGGTGCTGAGGAG
 TTTGATGAGGAGCGAGCCAGCAGGAAGATGCATTAGCACAAACAGGCCTTTGAAGAGGCTCGAAGAAGAA
 CTCGAGAATTTGAGGATAGAGACAGGTCTCACCGGGAGGAAATGGAGGCAAGAAGACAGCAAGACCCTAG
 TCCTGGTTCTAAGTGGCGGTGATGATCTCAAACCTCGTTAAGTGGAGCACAGCTTATGTCCCA
 TCTCTACACACTGCTTCTAGTTGGTATAAATAACTCATTGGGCGACCAGAACTGTGACAACTGGAGG
 GACTACAGTTGGTTTCATGGCCTGAGGCAGTGAAGACGTACCCACTGCCACGGTTTTGCACTATAATGC
 CTGCAATTTCTGATTTTTAAAATATGTAGCCAGTAATAATTTGAAATTTTTTCTATGCAAGCTTATCTTG
 TTGGCATTATTTAGTTGATCGAAAGTATACTTTCTCATTTAACTTAAAAGCTCATGTCATTAG
 AAACAAGATAAGAAATTTAAATTTGATCAGGGTTGCTTAACTTTCTTTTATACTTTCCAGACGAGTTGGT
 TATACAGCTTTCCTCCTTAGATAAGGGTCTTGGTTTTGTTTTCTCTACATCATTTCGTGTTTTT
 GTATTCTGCACCATTTTACAAATGAAGATGTGTTGCGGTTATTTTTCCAGCTATAAACCTAGAATAGA
 GCTGTCTGCCACAGCCTCCTAAAACAAACGTTTACAGTTGTTAAAGCCACAGTATCCTTTCAAATGCTGA
 TAGTCACCCTATCCCCTTAGACAAAAATTCACATTAGTATTAATTTTGTCTCAGACCCTGTTCAAGG
 TATATCTTGAATCATGAGTTTGGGTAGAGATGCTCTTACAGGTGAGAAATGCTCTACAGAAATGCCAA
 AGAAGCCACAGACTGGCTTCTGTTTTATTACAGGATTTTTTTTAAATCAGTCAGAAAAAGGATACTGGA
 ACTTGTGTATGTAACAGCATATTAACCTGGAGCAGTATAAATCAGCTACACAGGTAATTTGTGTTAA
 AATAATGTTTAAAGATAGCTGCTTTCATGTGATTTTTGTATTTTGTATTGATGCTTTTGTAGAAAACAAA
 TTGGGTGATGAAGATGAGTCTTAGAAAATGTTCACTCTGGGCAGAAGATGCATTTCTCCATTGATTCTGG
 GCAAAACATTCACAGATATAGATGATGGTATTTTACAAAAGGACTATAATGGTGCCTTTTGGAGATGAAT
 CAATGTAACGATATTTTTAAAACAGGCTTAGTGTCAAATTTGCAATTTTTTAAATATAAACTGGAAAAAG
 TGCTAAGTCATTGGCACATGCTTACAATACTTCCGTTGCGTATTCAATTAATGTTACTACATTTCTGA
 ATTTTTGCAAAAATGATTTTTATCATAAAATGGCATTATTTAGAAAATTTTAAAACACTGACATGGTCAA
 TTCAGAAAAGTCTGAATAAGGTCATTGCATTTAAAAGCATATAAAGATACTTGATTGTGGAAGTGTGTC
 TTTCAATGTATATAGGTCTTATAATTCATAAACAAGTACCCTGTATCTCAAATAAAAAATTTGTTATA
 TATTTGAAGTCGTGCATGATAAGGATTGTTTTGAATTATTATAAACAATAATGTGTTACAGAAGGTGAT
 GCTGACCTTGTGTTACTGAGCACTATGAATGAATTTGCTTGGTATTTGGTGTGTACAGCTCACATGTTT
 ACACTCTCAGTGCCCTGATGCCTCTCGGGAGTTACCTTTTTAAAGTGATCCTTTCTTTTTAAAATAACA
 TCTCGGTGGTACATTTCTCTGTTGCTTCTCGCAAGAGCTTCCAGTCCGGCAGTCAGTAAGATCACATG
 GTGTTAATGTGGCCGTCCTCTGTAATAGCAAATGTTCTTACTGGTTCTGCACTGCTTCTGTCTGTCT
 TAATGCTGGCGTTAAGATCATAAACTCCTTTCTCGGTAGTGCAGGCTTTGAAAATTAAGTTATTGATG
 CAATTTCAATTTTTATAATCTGTATTTAAAATGACATCATTGCATCATTTTTTAAAGATTCATCTCTA
 TAAAACCTTGCCTTAAGCTTCCAGATTGCTTTGCCGTTAGCTTTACTGTATATTTGTATGTTTTATTAC
 TTTACATTAATAATCTGTGACTGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_022309

Insert Size: 564 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:	BC026749 , AAH26749
RefSeq Size:	2705 bp
RefSeq ORF:	564 bp
Locus ID:	12400
UniProt ID:	Q08024
Cytogenetics:	8 53.04 cM
Gene Summary:	<p>Forms the heterodimeric complex core-binding factor (CBF) with RUNX family proteins (RUNX1, RUNX2, and RUNX3). RUNX members modulate the transcription of their target genes through recognizing the core consensus binding sequence 5'-TGTGGT-3', or very rarely, 5'-TGCGGT-3', within their regulatory regions via their runt domain, while CBF is a non-DNA-binding regulatory subunit that allosterically enhances the sequence-specific DNA-binding capacity of RUNX. The heterodimers bind to the core site of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, LCK, IL3 and GM-CSF promoters (Probable). CBF complexes repress ZBTB7B transcription factor during cytotoxic (CD8+) T cell development. They bind to RUNX-binding sequence within the ZBTB7B locus acting as transcriptional silencer and allowing for cytotoxic T cell differentiation (PubMed:18258917).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>