

Product datasheet for **TP501754**

Cbfb (NM_022309) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Mouse core binding factor beta (Cbfb), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >MR201754 protein sequence
Red=Cloning site **Green**=Tags(s)

MPRVVPDQRSKFENEFFRKLRSRECEIKYTGFRDRPHEERQTRFQNAACRDGRSEIAFVATGTNLSLQFFP
ASWQGEQRQTPSREYVDLREAGKVYLKAPMILNGVCVIWKGWIDLHRLDGMGCLEFDEERAQQEDALAQ
QAFEEARRRTREFEDRDRSHREEMEARQQDPSPGSNLGGGDDLKLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 22 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C after receiving vials.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_071704](#)

Locus ID: 12400

UniProt ID: [Q08024](#)

RefSeq Size: 2893

Cytogenetics: 8 53.04 cM



[View online »](#)

RefSeq ORF: 564

Synonyms: AI893578; PEA2; Pebp2; PEBP2b; Peppb2

Summary: 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]