# Recombinant Human CBFB Protein (M1-P182), Tag Free

**Cat. No.** CBFB-0483H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human GG-CBFB(M1-P182 end) Protein was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | M1-P182 |
| **Description** | 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 CBFB 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. 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. |
| **Form** | Liquid |
| **Endotoxin** | < 0.01 EU per μg of the protein |
| **Purity** | 80% |

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| **Stability** | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. |
| **Storage** | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Storage Buffer** | Supplied as sterile 50 mM Tris-HCl (pH 7.5), 200 mM NaCl, 20% glycerol, 1mM DTT. |
| **Shipping** | It is shipped out with blue ice. |

## GENE INFORMATION

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| **Gene Name** | CBFB core-binding factor, beta subunit [ Homo sapiens (human) ] |
| **Official Symbol** | CBFB |
| **Synonyms** | CBFB; core-binding factor, beta subunit; core-binding factor subunit beta; PEBP2B; CBF-beta; PEA2-beta; PEBP2-beta; SL3-3 enhancer factor 1 beta subunit; SL3-3 enhancer factor 1 subunit beta; SL3/AKV core-binding factor beta subunit; polyomavirus enhancer-binding protein 2 beta subunit; polyomavirus enhancer binding protein 2, beta subunit; |
| **Gene ID** | 865 |
| **mRNA Refseq** | NM_001755 |
| **Protein Refseq** | NP_001746 |
| **MIM** | 121360 |
| **UniProt ID** | Q13951 |

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