

## Product datasheet for PH302111

### CBFB (NM\_001755) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CBFB MS Standard C13 and N15-labeled recombinant protein (NP_001746)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202111
Predicted MW:	21.5 kDa
Protein Sequence:	>RC202111 protein sequence Red=Cloning site Green=Tags(s)  MPRVVPDQRSKFENEFFRKLSRECEIKYTGFRDRPHEERQARFQACRDRSEIAFVATGTNLSLQFFP ASWQGEQRQTPSREYVDLEREAGKVYLKAPMILNGVCVIWKGWIDLQRLDGMGCLEFDEERAQQEDALAQ QAFEEARRRTREFEDRDRSHREEMEVRSVQLLAVTGKKTTRP  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001746</a>
RefSeq Size:	3181
RefSeq ORF:	546
Synonyms:	PEBP2B
Locus ID:	865
UniProt ID:	<a href="#">Q13951</a> , <a href="#">A0A024R6X2</a>



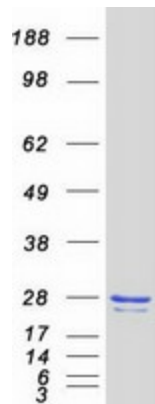
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**Cytogenetics:** 16q22.1

**Summary:** The protein encoded by this gene is the beta subunit of a heterodimeric core-binding transcription factor belonging to the PEBP2/CBF transcription factor family which master-regulates a host of genes specific to hematopoiesis (e.g., RUNX1) and osteogenesis (e.g., RUNX2). The beta subunit is a non-DNA binding regulatory subunit; it allosterically enhances DNA binding by alpha subunit as the complex binds to the core site of various enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers and GM-CSF promoters. Alternative splicing generates two mRNA variants, each encoding a distinct carboxyl terminus. In some cases, a pericentric inversion of chromosome 16 [inv(16)(p13q22)] produces a chimeric transcript consisting of the N terminus of core-binding factor beta in a fusion with the C-terminal portion of the smooth muscle myosin heavy chain 11. This chromosomal rearrangement is associated with acute myeloid leukemia of the M4Eo subtype. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Transcription Factors

**Product images:**



Coomassie blue staining of purified CBFB protein (Cat# [TP302111]). The protein was produced from HEK293T cells transfected with CBFB cDNA clone (Cat# [RC202111]) using MegaTran 2.0 (Cat# [TT210002]).