

Product datasheet for RC211623L3

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OriGene Technologies, Inc.

CBFB (NM_022845) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CBFB (NM_022845) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: CBFB

Synonyms: PEBP2B

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC211623).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_022845

ORF Size: 561 bp



CBFB (NM_022845) Human Tagged Lenti ORF Clone - RC211623L3

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: <u>NM 022845.2</u>

RefSeq Size:3150 bpRefSeq ORF:564 bp

Locus ID: 865

UniProt ID: Q13951

Cytogenetics: 16q22.1

Domains: CBF beta

Protein Families: Druggable Genome, Transcription Factors

MW: 21.8 kDa

Gene 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

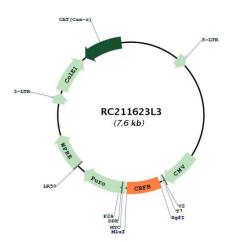
promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor

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 corebinding 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]



Product images:



Circular map for RC211623L3