

Product datasheet for RC236053

OriGene Technologies, Inc.

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CEBP Beta (CEBPB) (NM_001285879) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CEBP Beta (CEBPB) (NM_001285879) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: CEBPB

Synonyms: C/EBP-beta; IL6DBP; NF-IL6; TCF5

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC236053 representing NM_001285879
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGGCGGCTTCCCGTACGCGCTGCGCGCTTACCTCGGCTACCAGGCGGTGCCGAGCGGCAGCAGCG GGAGCCTCTCCACGTCCTCGTCCAGCCCGCCCGGCACGCCGAGCCCCGCTGACGCCAAGGCGCCCCC GACCGCCTGCTACGCGGGGGCCGCCGCGGCGCCCTCGCAGGTCAAGAGCCAAGAAGACCGTGGAC AAGCACAGCGACGAGTACAAGATCCGGCGAGCGCAACAACATCGCCGTGCGCAAGAGGCCGCACAAGG CCAAGATGCGCAACCTGGAGACCACACACACCCTGGAGCTCAAGCACCTGCCGAGCCCCTG GAAGGTGGAGCAGCTGCCGCAGCTCAGCACCCCTGCGGAACTTGTTCAAGCAGCTGCCCGAGCCCCTG

CTCGCCTCCTCCGGCCACTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236053 representing NM_001285879

Red=Cloning site Green=Tags(s)

MAAGFPYALRAYLGYQAVPSGSSGSLSTSSSSSPPGTPSPADAKAPPTACYAGAAPAPSQVKSKAKKTVD KHSDEYKIRRERNNIAVRKSRDKAKMRNLETQHKVLELTAENERLQKKVEQLSRELSTLRNLFKQLPEPL

LASSGHC

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

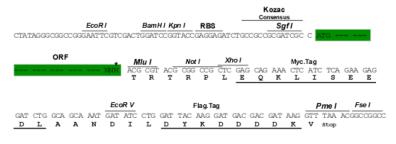
Restriction Sites: Sgfl-Mlul





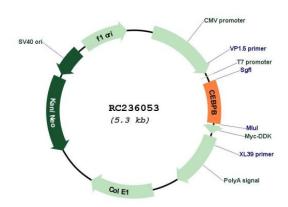
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001285879

ORF Size: 441 bp

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.



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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 001285879.1</u>, <u>NP 001272808.1</u>

 RefSeq Size:
 2113 bp

 RefSeq ORF:
 444 bp

 Locus ID:
 1051

 UniProt ID:
 P17676

 Cytogenetics:
 20q13.13

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

MW: 16.4 kDa

Gene Summary: This intronless gene encodes a transcription factor that contains a basic leucine zipper (bZIP)

domain. The encoded protein functions as a homodimer but can also form heterodimers with CCAAT/enhancer-binding proteins alpha, delta, and gamma. Activity of this protein is important in the regulation of genes involved in immune and inflammatory responses, among other processes. The use of alternative in-frame AUG start codons results in multiple protein isoforms, each with distinct biological functions. [provided by RefSeq, Oct 2013]