

## Product datasheet for RC205882

### CEBP Beta (CEBPB) (NM\_005194) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CEBP Beta (CEBPB) (NM_005194) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CEBP Beta
Synonyms:	C/EBP-beta; IL6DBP; NF-IL6; TCF5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205882 representing NM_005194 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCAACGCTGGTGGCCTGGGACCCAGCATGTCTCCCCCTGCCGCCGCCGCCGCTGCCTTTAAATCCA  
 TGGAAAGTGGCAACTTCTACTACGAGGCGGACTGCTTGGCTGCTGCGTACGGCGGCAAGGCGCCCCCGC  
 GGCGCCCCCGCGGCCAGACCCGGGCGCGCCCCCGCGGCGAGCTGGGCAGCATCGGCAGCACAGAG  
 CGCGCCATCGACTTCAGCCCGTACCTGGAGCCGCTGGGCGCGCCGAGGCCCCGGCGCCCGCCACGGCCA  
 CGGACACCTTCGAGGCGGCTCCGCCCGCGCCCCCGCGCCCGCTCCTCCGGGCAGCACACGACTT  
 CCTCTCCGACCTTTCTCCGACGACTACGGGGGCAAGAACTGCAAGAAGCCGGCCGAGTACGGCTACGTG  
 AGCCTGGGGCGCTGGGGGCTGCCAAGGGCGCGCTGCACCCCGGCTGCTTCGCGCCCTGCACCCACCGC  
 CCCC GCCCGCGCGCGCGCGCGCGCGAGCTCAAGGCGGAGCCGGGCTTCGAGCCCGCGGACTGCAAGCGGAA  
 GGAGGAGGCCGGGGCGCGGGCGCGCGCGCAGGCATGGCGGCGGGCTTCCCGTACGCGCTGCGCGCTTAC  
 CTCGGCTACCAGGCGGTGCCGAGCGGCAGCAGCGGAGCCTCTCCACGTCTCTCGTCCAGCCCGCCCG  
 GCACGCCGAGCCCCGCTGACGCCAAGGCGCCCCGACCGCCTGCTACGCGGGGGCGCGCGCGCGCCCTC  
 GCAGGTCAAGAGCAAGGCCAAGAAGACCGTGGACAAGCACAGCAGCAGTACAAGATCCGGCGCAGCGC  
 AACACATCGCCGTGCGCAAGAGCCGCGACAAGGCCAAGATGCGCAACCTGGAGACGACACAAAGGTCC  
 TGGAGCTCAGGCGCGAGAACGAGCGGCTGCAGAAGAAGTGGAGCAGCTGTCGCGCGAGCTCAGCACCCCT  
 GCGGAACCTGTTCAAGCAGCTGCCCGAGCCCTGCTCGCCTCTCCGGCCACTGC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC205882 representing NM\_005194  
 Red=Cloning site Green=Tags(s)

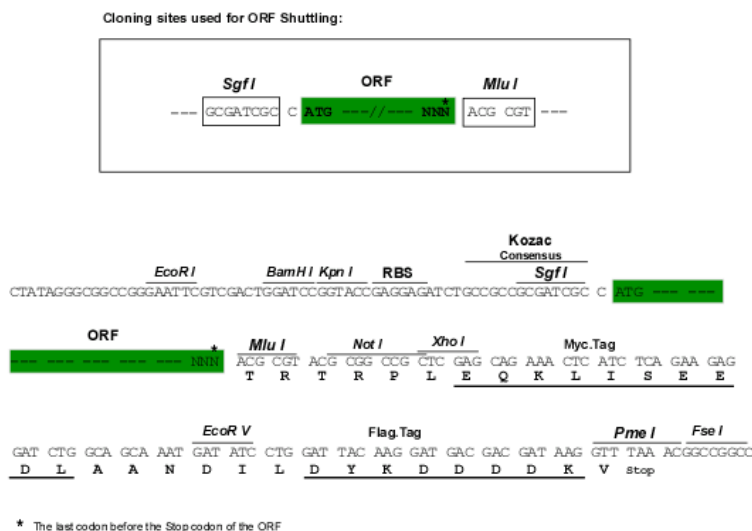
MQRLVAWDPACLPPLPPPPAFKSMEVANFYFEADCLAAAYGGKAAPAAPPAARPGPRPPAGELGSIGDHE  
 RAIDFSPYLEPLGAPQAPAPATATDTFEAAPAPAPAPASSGQHDFLSDLFSDDYGGKNCKKPAEYGYV  
 SLGRLGAAKGALHPGCFAPLHPPPPPPPPAELKAEPGFEPADCKRKEEAGAPGGGAGMAAGFPYALRAY  
 LGYQAVPSGSSGSLSTSSSSPPGTPSPADAKAPPTACYAGAAPSQVKSAKKTVDKHSDEYKIRRRER  
 NNIAVRKSRDKAKMRNLETQHKVLELTAENERLQKKVEQLSRELSTLRNLFKQLPELLASSGHC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2697\\_b01.zip](https://cdn.origene.com/chromatograms/mg2697_b01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005194

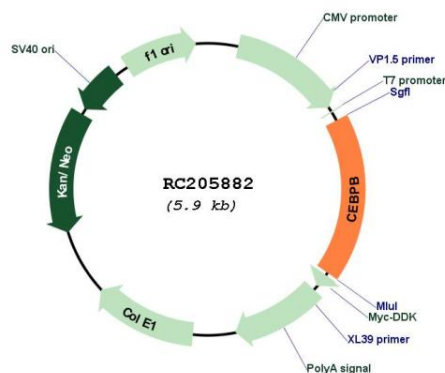
**ORF Size:** 1035 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

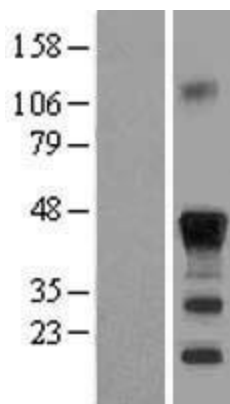
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_005194.4</a>
<b>RefSeq Size:</b>	1837 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	1051
<b>UniProt ID:</b>	<a href="#">P17676</a>
<b>Cytogenetics:</b>	20q13.13
<b>Domains:</b>	BRLZ
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
<b>MW:</b>	35.9 kDa
<b>Gene Summary:</b>	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]

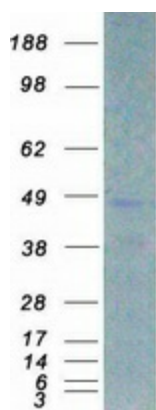
## Product images:



Circular map for RC205882



Western blot validation of overexpression lysate (Cat# [LY417451]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205882 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CEBPB protein (Cat# [TP305882]). The protein was produced from HEK293T cells transfected with CEBPB cDNA clone (Cat# RC205882) using MegaTran 2.0 (Cat# [TT210002]).