

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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAACGCCTGGTGGCCTGGGACCCAGCATGTCTCCCCCTGCCGCCGCCGCCCTGCCTTTAAATCCA
TGGAAAGTGGCAACTTCTACTACGAGGCGGACTGCTTGGCTGCTGCGTACGGCGGCAAGGCGCCCCCGC
GGCGCCCCCGCGCCAGACCCGGGCGCGCCCCCGCGGCGAGCTGGGCAGCATCGGCAGCACGAG
CGCGCCATCGACTTCAGCCCGTACCTGGAGCCGCTGGGCGCGCCGAGGCCCGCGCCCGCCACGCGCA
CGGACACCTTCGAGGCGGCTCCGCCCGCGCCCGCCCCCGCGCCCGCTCCTCCGGGCGAGCACCGACTT
CCTCTCCGACCTTTCTCCGACGACTACGGGGCAAGAAGTGAAGAAGCCGGCCGAGTACGGCTACGTG
AGCCTGGGGCGCCTGGGGCTGCAAGGGCGCGCTGCACCCCGGCTGCTTCGCGCCCTGCACCCACCGC
CCCCCGCGCCCGCGCCCGCGCGGAGCTCAAGGCGGAGCCGGGCTTCGAGCCCGGGACTGCAAGCGGAA
GGAGGAGGCCGGGGCGCGGGCGCGGCGCAGGCATGGCGGGGGCTTCCCGTACGCGCTGCGCGTTAC
CTCGGCTACCAGGCGGTGCCGAGCGGCAGCAGCGGGAGCCTCTCCACGTCTCCTCGTCCAGCCCGCCC
GCACGCCGAGCCCGTACGCCAAGGCGCCCCGACCGCCTGCTACGCGGGGGCGCGCCGGCGCCCTC
ACAACATCGCCGTGCGCAAGAGCCGCGACAAGGCAAGATGCGCAACCTGGAGCGCAGCACAAGGTCC
TGGAGCTCACGGCCGAGAACGAGCGGCTCAGAAGAAGGTGGAGCAGCTGTCGCGCGAGCTCAGCACCCCT
CGGAACTTGTTCAAGCAGCTGCCCGAGCCCCTGCTCGCCTCCTCCGGCCACTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC205882 representing NM_005194
 Red=Cloning site Green=Tags(s)

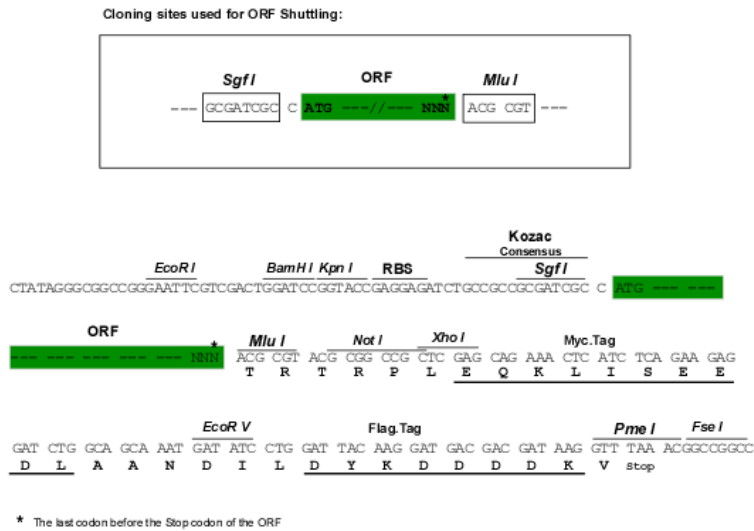
MQRLVAWDPACLPLPPPPPAFKSMEVANFYEADCLAAAYGGKAAPAAPPAARPGPRPPAGELGSIGDHE
 RAIDFSPYLEPLGAPQAPAPATAATDTFEAAPAPAPAPASSGQHDFLSDLFSDDYGGKCKKPAEYGYV
 SLGRLGAAKALHPGCFAPLHPPPPPPPPAELKAEPGFEPADCKRKEEAGAPGGGAGMAAGFPYALRAY
 LGYQAVPSGSSGLSTSSSSPPGTPSPADAKAPPTACYAGAAPAPSQVKSKAKKTVDKHSDEYKIRRRER
 NNIAVRKSRDKAKMRNLETQHKVLELTAENERLQKKVEQLSRELSTLRNLFKQLPELLASSGHC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

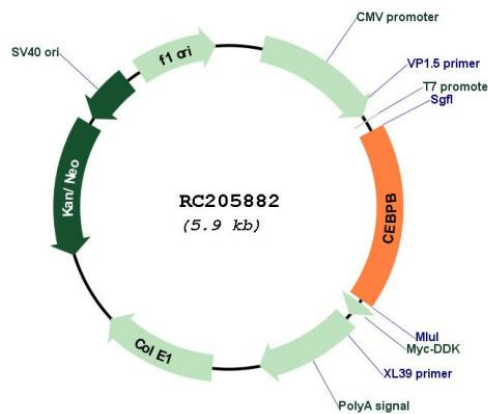
Chromatograms: https://cdn.origene.com/chromatograms/mg2697_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:

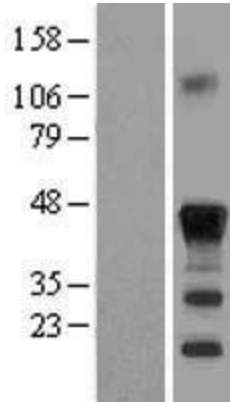


ACCN: NM_005194

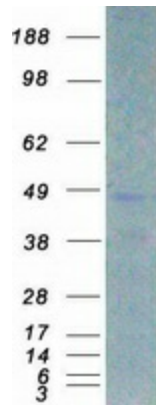
ORF Size:	1035 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional 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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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:	NM_005194.4
RefSeq Size:	1837 bp
RefSeq ORF:	1038 bp
Locus ID:	1051
UniProt ID:	P17676
Cytogenetics:	20q13.13
Domains:	BRLZ
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
MW:	35.9 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]

Product images:


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]).