

## Product datasheet for **RG205882**

### 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:	TurboGFP
Symbol:	CEBP Beta
Synonyms:	C/EBP-beta; IL6DBP; NF-IL6; TCF5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205882 representing NM_005194 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAACGCCTGGTGGCCTGGGACCCAGCATGTCTCCCCCTGCCGCGCCGCCGCTGCCTTTAAATCCA  
TGGAAAGTGGCCAACTTCTACTACGAGGCGGACTGCTTGGCTGCTGCGTACGGCGGCAAGGCGCCCGC  
GGCGCCCCCGCGCCAGACCCGGGCGCGCCCCCGCGGCGAGCTGGGCAGCATCGGCAGCACGAG  
CGCGCCATCGACTTCAGCCCGTACCTGGAGCCGCTGGGCGCGCCGAGGCCCGCGCCCGCCACGCGCA  
CGGACACCTTCGAGGCGGCTCCGCCCGCGCCCGCCCCGCGCCCGCTCCTCCGGGCGAGCACGACTT  
CCTCTCCGACCTTTCTCCGACGACTACGGGGCAAGAAGTGAAGAAGCCGGCCGAGTACGGCTACGTG  
AGCCTGGGGCGCCTGGGGCTGCAAGGGCGCGCTGCACCCCGGCTGCTTCGCGCCCTGCACCCACCGC  
CCCCGCGCCCGCGCCCGCCCGCGGAGCTCAAGGCGGAGCCGGGCTTCGAGCCCGGGACTGCAAGCGGAA  
GGAGGAGGCCGGGGCGCGGGCGGCGCAGGCATGGCGGGGGCTTCCCGTACGCGCTGCGCGTTAC  
CTCGGCTACCAGGCGGTGCCGAGCGGCAGCAGCGGGAGCCTCTCCACGTCTCCTCGTCCAGCCCGCCC  
GCACGCCGAGCCCGCTGACGCCAAGGCGCCCGACCGCCTGCTACGCGGGGGCGCGCCGGCGCCCTC  
ACAACATCGCCGTGCGCAAGAGCCGCGACAAGGCAAGATGCGCAACCTGGAGACGACGACAAAGTCC  
TGGAGCTCAGGCGGAGAACGAGCGGCTCAGAAAGAGTGGAGCAGCTGTCGCGGAGCTCAGCACCCCT  
CGGAACTTGTTCAAGCAGCTGCCCGAGCCCTGCTCGCCTCCTCCGGCCACTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205882 representing NM\_005194  
 Red=Cloning site Green=Tags(s)

MQRLVAWDPACLPLPPPPPAFKSMEVANFYEADCLAAAYGGKAAPAAPPAARPGPRPPAGELGSIGDHE  
 RAIDFSPYLEPLGAPQAPAPATADTDFEAPPAPAPAPASSGQHHDFLSDLFSDDYGGKNCKKPAEYGYV  
 SLGRLGAAKGALHPGCFAPLHPPPPPPPPAELKAEPGFEPADCKRKEEAGAPGGGAGMAAGFPYALRAY  
 LGYQAVPSGSSGSLSTSSSSPPGTPSPADAKAPPTACYAGAAPAPSQVKSKAKKTVDKHSDEYKIRRRER  
 NNIAVRKSRDKAKMRNLETQHKVLELTAENERLQKKVEQLSRELSTLRNLFKQLPELLASSGHC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005194

**ORF Size:** 1035 bp

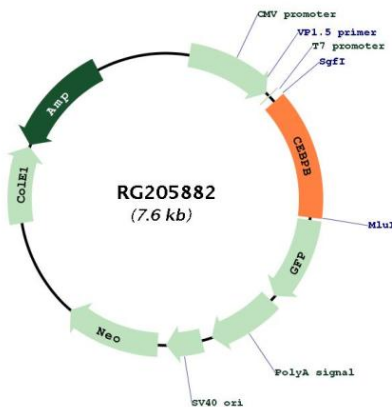
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](#)

**OTI Annotation:** 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>	<u>NM_005194.2, NP_005185.2</u>
<b>RefSeq Size:</b>	1837 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	1051
<b>UniProt ID:</b>	<u>P17676</u>
<b>Cytogenetics:</b>	20q13.13
<b>Domains:</b>	BRLZ
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
<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 RG205882