

## Product datasheet for **MG205482**

### Cebpa (NM\_007678) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cebpa (NM_007678) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cebpa
Synonyms:	C/ebp; C/ebpalpha; CBF-A; Ceb; Cebp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205482 representing NM_007678 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTCGGCCGACTTCTACGAGGTGGAGCCGCGGCCCCCGATGAGCAGTCACCTCCAGAGCCCCCGC  
ACGCGCCAGCAACGCGCCTTTGGCTTTCCCGGGGCGCGGGCCCCGCGCCGCCCCAGCCCCACCTGC  
CGCCCCGAGCCGCTGGGCGGCATCTGCGAGCACGAGACGTCTATAGACATCAGCGCCTACATCGACCCG  
GCCGCTTCAACGACGAGTTCTGGCCGACCTTCCAGCACAGCCGACAGCAGGAGAAGGCCAAGGCGG  
CGGCGGGCCCCGCGGGTGGCGGGTACTTTGACTACCCGGGAGCCCCGCGGGCCCCGCGGGCGCGGT  
CATGTCCGCGGGGCGCACGGGCCCTCCCGGCTACGGCTGTGCGGCGGCGCGGTACCTGGACGGCAGG  
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GCCGACCCCGCACGCGTCTCCGCGCACCTGGCCGCCCCCACTTGCAGTTCCAGATCGCGCACTGCGGC  
CAGACCACCATGCACCTGCAGCTGGCCACCCACACCGCCGCCACGCCGTGCCAGCCCGCACGCTG  
CGCCCGCTTGGGTGCTGCGGGCCTGCCTGGCCCCGGGAGCGCGCTCAAGGGCTTGGCCGGTGGCACCC  
CGACCTCCGCACGGGAGGCGCGCGGTGGCAGCGGTGCCGTGCGGGCAAAGCAAGAAGTCGGTGGAC  
AAGAACAGCAACGAGTACCGGGTACGGCGGAACGCAACAACATCGCGGTGCGCAAGAGCCGAGATAAG  
CCAAACAACGCAACGTGGAGACGCAACAGAAGGTGCTGGAGTTGACCAAGTGAACAATGACCGCTGCGCAA  
GCGGGTGAACAGCTGAGCCGTGAAGTGGACACGCTGCGGGGCATCTTCCGCCAGCTGCCTGAGAGCTCC  
TTGGTCAAGGCCATGGGCAACTGCGCG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205482 representing NM\_007678  
Red=Cloning site Green=Tags(s)

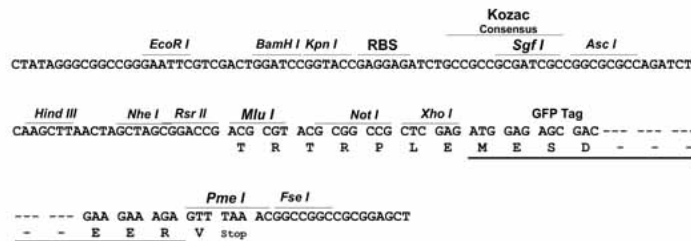
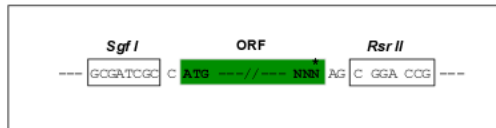
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 QTTMHLQPGHPTPPPTPVSPHAAPALGAAGLPGPGSALKGLAGAHPLDLRTGGGGGSGAGAKKKSVD  
 KNSNEYRVRRRRNNIAVRKSRDKAKQRNVETQQKYLELTSNDRLRKRVEQLSRELDLRLGIFRQLPESS  
 LVKAMGNCA

SGPTRRRLE - GFP Tag - V

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_007678

**ORF Size:** 1077 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.

**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:** [NM\\_007678.3](#), [NP\\_031704.2](#)

**RefSeq Size:** 2651 bp

**RefSeq ORF:** 1080 bp

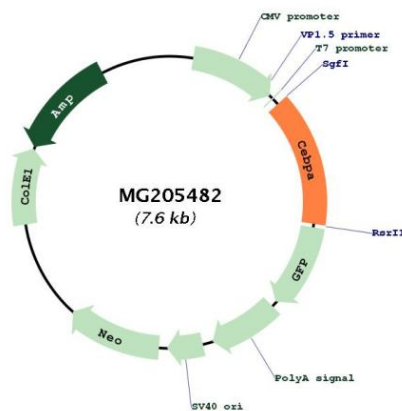
**Locus ID:** 12606

**UniProt ID:** [P53566](#)

**Cytogenetics:** 7 21.02 cM

**Gene Summary:** This intronless gene encodes a transcription factor that contains a basic leucine zipper (bZIP) domain and recognizes the CCAAT motif in the promoters of target genes. The encoded protein functions in homodimers and also heterodimers with CCAAT/enhancer-binding proteins beta and gamma. Activity of this protein can modulate the expression of genes involved in cell cycle regulation as well as in body weight homeostasis. The use of alternative in-frame non-AUG (CUG) and AUG start codons results in several protein isoforms with different lengths. Differential translation initiation is mediated by an out-of-frame, upstream open reading frame which is located between the CUG and the first AUG start codons. [provided by RefSeq, Sep 2014]

**Product images:**



Circular map for MG205482