

Product datasheet for **MR205482**

Cebpa (NM_007678) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cebpa (NM_007678) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cebpa
Synonyms:	C/ebp; C/ebpalph; CBF-A; Ceb; Cebp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205482 representing NM_007678 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGAGTCGGCCGACTTCTACGAGGTGGAGCCGCGGCCCCGATGAGCAGTCACCTCCAGAGCCCCCGC
ACGCGCCAGCAACGCCGCTTTGGCTTTCCCGGGGCGCGGGCCCCGCGCCGCCCCAGCCCCACCTGC
CGCCCCGAGCCGCTGGCGGCATCTGCGAGCAGGACGTCTATAGACATCAGCGCTACATCGACCCG
GCCGCTTCAACGACGAGTTCTGGCCGACCTTCCAGCACAGCCGACAGCAGGAGAAGGCCAAGCGG
CGCGGGCCCCCGGGTGGCGGCGGTGACTTTGACTACCGGGAGCCCCGCGGGCCCCGCGGCGCGGT
CATGTCCGCGGGGCGCACGGGCCCCCTCCCGGCTACGGCTGTGCGGCGGCCGGCTACCTGGACGGCAGG
CTGGAGCCCCGTACGAGCGCTCGGGGCGCCCGCTACGGCCGCTGGTGATCAACAAGAGCCCCGCG
AGGAGGACGAGGCGAAGCAGCTGGCGCTGGCCGGCCTCTTCCCTACCAGCCACCGCCGCCACCGCCACC
GCCGACCCGACGCGTCTCCGCGCACCTGGCCGCCCCCACTTGCAAGTTCCAGATCGCGCACTGCGGC
CAGACCACCATGCACCTGCAGCTGGCCACCCACACCGCCGCCACGCCGTGCCAGCCCGCACGCTG
CGCCCGCTTGGGTGCTGCGGGCCTGCTGGCCCCGGGAGCGCGCTCAAGGGCTTGGCCGGTGCACACC
CGACCTCCGACGGGAGGCGGCGGCGGTGGCAGCGGTGCCGTGCGGGCAAAGCAAGAAGTCGGTGGAC
AAGAACAGCAACGAGTACCGGTACGGCGGGAACGCAACAACATCGCGGTGCGCAAGAGCCGAGATAAG
CCAAACAACGCAACGTGGAGACGCAACAGAAGGTGCTGGAGTTGACCAAGTACAATGACCGCTGCGCAA
GCGGGTGAACAGCTGAGCCGTGAAGTGGACACGCTGCGGGGCATCTTCCGCGAGCTGCCTGAGAGCTCC
TTGGTCAAGGCCATGGGCAACTGCGCG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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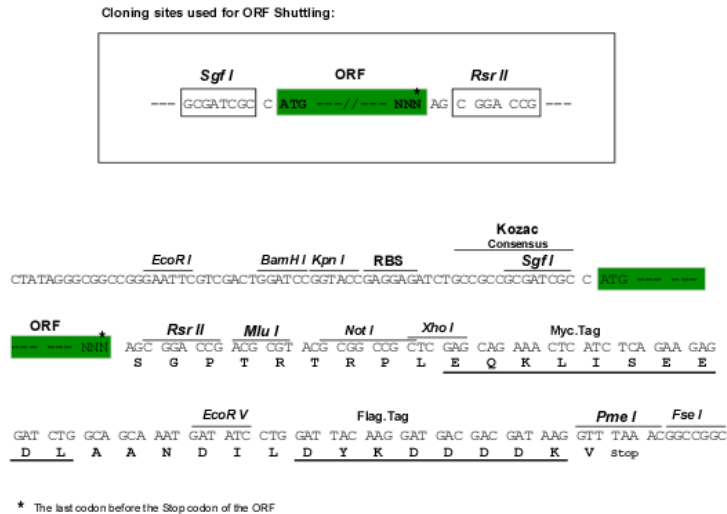
Protein Sequence: >MR205482 representing NM_007678
 Red=Cloning site Green=Tags(s)

MESADFYEVPRPPMSSHLQSPHAPSNAAFGFPRGAGAPPPAPPAPEPLGGICEHETSIDISAYIDP
 AAFNDEFLADLFQHSRQKEKAKAAAGPAGGGGDFDYPGAPAGPGGAVMSAGAHGPPPGYGCAAAGYLDGR
 LEPLYERVGAPALRPLVIKQEPREDEAKQLALAGLFPYQPPPPPPPPHASPAPHLAAPHLQFQIAHCG
 QTTMHLQPGHPTPPPTPVSPHAAPALGAAGLPGPGSALKGLAGHPDLRTGGGGGSGAGAGKAKKSVD
 KNSNEYRVRRERNIAVRKSRDKAKQRNVETQKQVLELTSNDRLRKRVEQLSRELDLRLGIFRQLPESS
 LVKAMGNCA

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_007678

ORF Size: 1077 bp

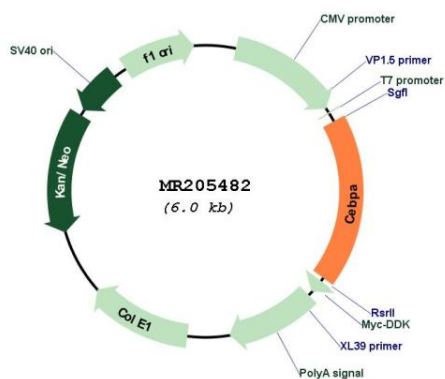
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_007678.3</u> , <u>NP_031704.2</u>
RefSeq Size:	2651 bp
RefSeq ORF:	1080 bp
Locus ID:	12606
UniProt ID:	<u>P53566</u>
Cytogenetics:	7 21.02 cM
MW:	37.9 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for MR205482