

## Product datasheet for MR228120

### Cebpa (NM\_001287523) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cebpa (NM\_001287523) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cebpa  
**Synonyms:** C/ebp; C/ebpalpha; CBF-A; Ceb; Cebp  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228120 representing NM\_001287523  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

ATGCACCTGCAGCCTGGCCACCCACACCGCCGCCACGCCCGTGCCAGCCCGCAGCTGCGCCCGCT  
 TGGGTGCTGCGGGCTGCCTGGCCCCGGGAGCGCGCTCAAGGGCTTGGCCGGTGCACCCCGACCTCCG  
 CACGGGAGGCGCGCGGTGGCAGCGGTGCCGGTGCGGGCAAAGCAAGAAGTCGGTGGACAAGAACAGC  
 AACGAGTACCGGGTACGGCGGGAACGCAACAACATCGCGGTGCGCAAGAGCCGAGATAAAGCCAAACAAC  
 GCAACGTGGAGACGCAACAGAAGGTGCTGGAGTTGACCAGTGACAATGACCGCCTGCGCAAGCGGGTGA  
 ACAGCTGAGCCGTGAAGTGGACACGCTGCGGGGCATCTCCGCCAGCTGCCTGAGAGCTCCTTGGTCAAG  
 GCCATGGGCAACTGCGCG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228120 representing NM\_001287523  
 Red=Cloning site Green=Tags(s)

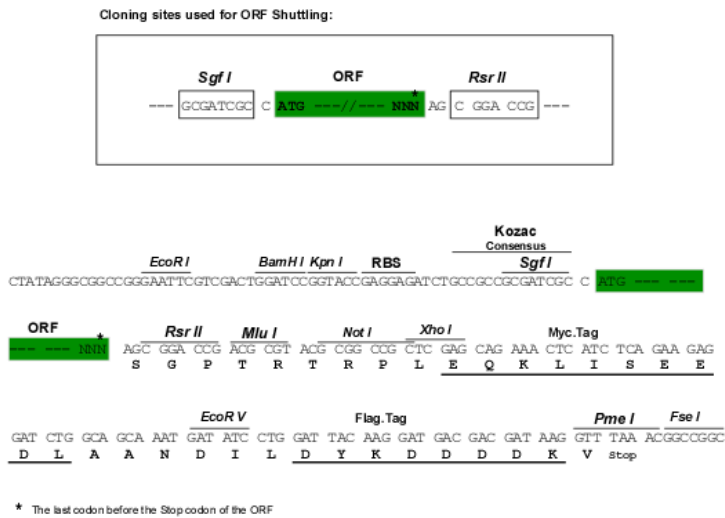
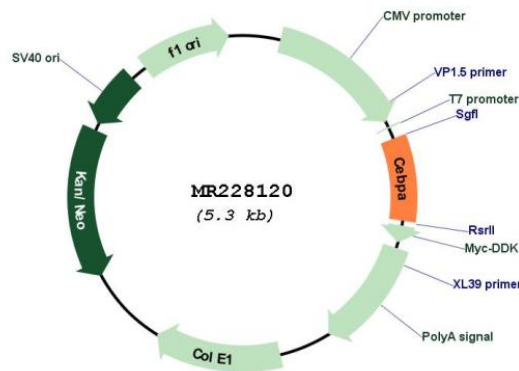
MHLQPGHPTPPPTVPSPHAAPALGAAGLPGPGSALKGLAGHPDLRTGGGGGSGAGAGKAKKSVDKNS  
 NEYRVRRENNIAVRKSRDKAKQRNVETQQKVLLELTSNDRLRKRVEQLSRELDLRLGIFRQLPESSLVK  
 AMGNC

**SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDK**V

**Restriction Sites:** SgfI-RsrII



[View online »](#)

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001287523

**ORF Size:** 438 bp

**OTI Disclaimer:** 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_001287523.1, NP_001274452.1</u>
<b>RefSeq Size:</b>	2636 bp
<b>RefSeq ORF:</b>	441 bp
<b>Locus ID:</b>	12606
<b>Cytogenetics:</b>	7 21.02 cM
<b>MW:</b>	15.9 kDa
<b>Gene Summary:</b>	<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>