

Product datasheet for **MC226517**

Cebpa (NM_001287521) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cebpa (NM_001287521) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cebpa
Synonyms: C/ebp; C/ebpalph; CBF-A; Ceb; Cebp
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226517 representing NM_001287521
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGTCCGCGGGGGCGCACGGGCCCTCCCGGCTACGGCTGTGCGGGCGCGGCTACCTGGACGGCAGGC
TGGAGCCCTGTACGAGCGCGTCGGGGCGCCCGCTACGGCCGCTGGTATCAAACAAGAGCCCGCGCA
GGAGGACGAGGCGAAGCAGCTGGCGCTGGCCGGCTCTTCCCCTACCAGCCACCGCCGCCACCGCCACCG
CCGACCCGACGCGTCTCCCGCGCACCTGGCCGCCCCCACTTGCAGTTCAGATCGCGCACTGCGGCC
AGACCACCATGCACCTGCAGCCTGGCCACCCACACCGCCGCCACGCCGTGCCAGCCCGCACGCTGC
GCCCGCTTGGGTGCTGCGGGCCTGCCTGGCCCGGGAGCGCGCTCAAGGGCTTGGCCGGTGCACCCCC
GACCTCCGACGGGAGGCGGGCGGTGGCAGCGGTGCCGGTGCAGGGCAAAGCAAGAAGTCGGTGGACA
AGAACAGCAACGAGTACCGGGTACGGCGGGAACGCAACAACATCGCGGTGCGCAAGAGCCGAGATAAAGC
CAAACAACGCAACGTGGAGACGCAACAGAAGGTGCTGGAGTTGACCAGTGACAATGACCGCTGCCAAG
CGGTGGAACAGCTGAGCCGTGAACGGACACGCTGCGGGCATCTTCCGCCAGCTGCCTGAGAGCTCCT
TGGTCAAGGCCATGGCAACTGCGCG**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001287521
Insert Size: 729 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001287521.1, NP_001274450.1</u>
RefSeq Size:	2636 bp
RefSeq ORF:	729 bp
Locus ID:	12606
UniProt ID:	<u>P53566</u>
Cytogenetics:	7 21.02 cM
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> <p>Transcript Variant: This variant (1) can initiate translation from an upstream non-AUG (CUG) site, and also from four downstream, in-frame AUG sites. The isoform (b, also known as 30-kDa) represented in this RefSeq results from translation initiation at the third AUG start codon. Isoform b has a shorter N-terminus, compared to isoform c. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>