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Product datasheet for MC203281

Cebpa (NM_007678) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cebpa (NM_007678) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cebpa
Synonyms:	C/ebp; C/ebpalpha; CBF-A; Ceb; Cebp
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC058161
CGAAGCTGCGCGGGCGCGAGCCAGTTGGGGCACTGGGTGGGCGGCGGCGACAGCGGCGCCACGCGCAGGC
TGGAGGCCGCCGAGGCTCGCCATGCCGGGAGAACTCTAACTCCCCCATGGAGTCGGCCGACTTCTACGAG
GTGGAGCCGCGGCCCCCGATGAGCAGTCACCTCCAGAGCCCCCCGCACGCGCCCAGCAACGCCGCCTTTG
GCTTTCCCCGGGGCGCGGGCCCCGCGCCGCCCCCAGCCCCACCTGCCGCCCCGGAGCCGCTGGGCGGCAT
CTGCGAGCACGAGACGTCTATAGACATCAGCGCCTACATCGACCCGGCCGCCTTCAACGACGAGTTCCTG
GCCGACCTCTTCCAGCACAGCCGACAGCAGGAGAAGGCCAAGGCGGCGGCGGGCCCCGCGGGTGGCGGCG
GTGACTTTGACTACCCGGGAGCCCCGGCGGGCCCCGGCGGCGCGGTCATGTCCGCGGGGGCGCACGGGCC
CCCTCCCGGCTACGGCTGTGCGGCGGCCGGCTACCTGGACGGCAGGCTGGAGCCCCTGTACGAGCGCGTC
GGGGCGCCCGCGCTACGGCCGCTGGTGATCAAACAAGAGCCCCGCGAGGAGGACGAGGCGAAGCAGCTGG
CGCTGGCCGGCCTCTTCCCCTACCAGCCACCGCCGCCACCGCCACCGCCGCACCCGCACGCGTCTCCCGC
GCACCTGGCCGCCCCCCACTTGCAGTTCCAGATCGCGCACTGCGGCCAGACCACCATGCACCTGCAGCCT
GGCCACCCCACACCGCCGCCCACGCCCGTGCCCAGCCCGCACGCTGCGCCCGCCTTGGGTGCTGCGGGCC
TGCCTGGCCCCGGGAGCGCGCTCAAGGGCTTGGCCGGTGCGCACCCCGACCTCCGCACGGGAGGCGGCGG
CGGTGGCAGCGGTGCCGGTGCGGGCAAAGCCAAGAAGTCGGTGGACAAGAACAGCAACGAGTACCGGGTA
CGGCGGGAACGCAACAACATCGCGGTGCGCAAGAGCCGAGATAAAGCCAAACAACGCAACGTGGAGACGC
AACAGAAGGTGCTGGAGTTGACCAGTGACAATGACCGCCTGCGCAAGCGGGTGGAACAGCTGAGCCGTGA
ACTGGACACGCTGCGGGGCATCTTCCGCCAGCTGCCTGAGAGCTCCTTGGTCAAGGCCATGGGCAACTGC
GCGTGAGGCGCGCGGCTGCGGGACCGCCTTGGGCCGGCCCCCTGGCTGGAGACCCAGAGGATGGTTTCGG
GTCGCTGGATCTCTAGGCTGCCCGGGCCGCGCAAGCCAGGACTAGGAGATTCCGGTGTGGCCTGAAAGCC
TGGCCTGCTCCGCGTGTCCCCTCCCTTCCTCTGAGCCGGACTCGGTGCGTCTAAGATGAGGGAGTCAGGC
CGTGGTGGTTTCTCCTTGAGACCGAGAGACTTTTCCGCGGAGCTGAGCTGGGGGCCCGGCAGTACTAGTA
TTAAGGAAGTAACCTTGTGCCTTGGATACTCAAAACTCGCTCCTTTTCCTACCGAGTAGGGGGAGCAAAA
ATGTGCCTTGATATTTTATTTGGAGGATTCCTGCTTCCTCTCGGGCCTCAGCTGGCCCCCGTGAGAAAAA
TGAAGGGTGCAGGCCCAGGGCAGGAGGAAGATACAGGAAGCTGAGATCCCGGCAGTGCCCTGAGCTGCCC
CTCAGTCCCTGTCTTTAGAGGGGAGGGACTTAGGTGTTGGGGATTTGAGTCTGTGTCCTCACCCCCAGCT
ACAGGGAGGTGGAGGGCTCCTAATCCCTTGCTTTTTGCACCTCCACCTACATCCCCCCCCCCCACTCAGC
TTACAACAGGCCAGGTTTCCTGGGTGAGTTCATGGAGAATGGGGGCACCACCCCCAGTCAGACCAGAAAG
CTGAGTTGTGAGTTAGCCATGTGGTAGGAGACAGAGACCTAGGTTTCTGGGCTTTGTGGGGTGGGGGATA
GGAGGACACGGGGACCATTAGCCTTGTGTGTACTGTATGTCGCCAGCCGCTGTTGCTGAAGGAACTTGAA
GCACAATCGATCCATCCCAGAGGGACTGGAGTTATGACAAGCTTCCCAAATATTTTGCTTTATCATCCGA
TATCAACACTTGTATCTGGTCTCTGTGTCCCAGCGGTGCCTTGTGCAATGGCAGTGTGCACGTCTATGCT
AAACCACCATTTTATTTGGTCTTTTGTTTTGTTTTGGTTTTGCTCTGATTCTTGCCAAACTGAGACTCTT
CACTAACGGCTGGGGGAAGGAGCTGAGTGAGGCTCTCATTCTTTTTGGTTTAGGGATGTTTGGGTTTTTT
CGTCTGCCTCCCAGAGGACCAATTAAATGAAGTGGGCTTCCCCCTCTCCCCTAGTTGTCCAAGGGTGTAT
GTAGTAGTGGGTCTTAGCTTCCTCCGGCTAAGACTTAGGCTTCCCCACCCACCCAACCCCATCCCCAACG
GCCCTGGCTCTGGGTCTGGAAAGAAGGCCACCTCCAGCCAGTTCATACACACACCCCTGTGGCTGGGAGC
AGGGCTGGACCGCTTCCTTCTCTTCTTTTTTTGGGGGGGGGGGACACAAAGTTTCATGCTAGATGTCGTA
TGTATTATATCTATAATATAAACATATCAAACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AA

Restriction Sites: RsrII-NotI

ACCN: NM_007678

Insert Size: 1080 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
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:	BC058161, AAH58161
RefSeq Size:	2662 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]
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 (a, also known as 42-kDa) represented in this RefSeq results from translation initiation at the first AUG start codon. Isoform a has a shorter N-terminus, compared to isoform c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.