CEBPE cDNA Clone – CCAAT/Enhancer-Binding Protein Epsilon

PRODUCT OVERVIEW

Product Name	CEBPE, cDNA Clone
Full Product Name	CEBPE
Product Gene Name	CEBPE cdna clone
Product Synonym Names	C/EBP-epsilon; CRP1
Sequence	Nucleotide Sequence: ATGTCCCACG GGACCTACTA CGAGTGTGAG CCCCGGGGTG GCCAGCAGCC ACTCGAGTTC TCAGGGGGCC GAGCTGGGCC CGGGGAGCTA GGGGACATGT GTGAGCATGA GGCCTCCATT GACCTCTCCG CCTACATCGA GTCTGGGGAA GAGCAGCTTC TCTCCGATCT CTTTGCCGTG AAGCCAGCGC CTGAGGCCAG AGGCCTCAAG GGCCCCGGAA CCCCTGCCTT CCCCCACTAC TTGCCGCCTG ACCCTCGGCC CTTTGCCTAC CCTCCACATA CCTTCGGCCC AGACAGGAAG GCGCTGGGGC CTGGCATCTA CAGCAGCCCA GGGAGCTACG ACCCCAGGGC TGTGGCGGTG AAGGAGGAGC CCCGGGGGCC AGAGGGCAGC CGAGCTGCCA GCCGAGGCAG CTACAATCCC CTGCAGTACC AAGTGGCACA CTGTGGGCAG ACAGCCATGC ACCTGCCCCC AACTCTGGCA GCACCCGGCC AGCCTCTGCG CGTTCTCAAG GCCCCTTTGG CCACTGCCGC ACCCCCCTGC AGTCCCCTCC TGAAGGCGCC CTCCCCGGCT GGCCCCTTAC ACAAGGGCAA GAAGGCAGTG AACAAAGATA GCCTTGAGTA CCGGCTGAGG CGGGAGCGCA ACAACATCGC CGTGCGCAAG AGCCGAGACA AGGCCAAGAG GCGCATTCTG GAGACGCAGC AGAAGGTGCT GGAGTACATG GCAGAGAACG AGCGCCTCCG CAGCCGCGTG GAGCAGCTCA CCCAGGAGCT AGACACCCTC CGCAACCTCT TCCGCCAGAT TCCTGAGGCG GCCAACCTCA TCAAGGGCGT GGGGGGTTGC AGCTGA Transl ation Sequence: MSHGTYYECE PRGGQQPLEF SGGRAGPGEL GDMCEHEASI DLSAYIESGE EQLLSDLFAV KPAPEARGLK GPGTPAFPHY LPPDPRPFAY PPHTFGPDRK ALGPGIYSSP GSYDPRAVAV KEEPRGPEGS RAASRGSYNP LQYQVAHCGQ TAMHLPPTLA APGQPLRVLK APLATAAPPC SPLLKAPSPA GPLHKGKKAV NKDSLEYRLR RERNNIAVRK SRDKAKRRIL ETQQKVLEYM AENERLRSRV EQLTQELDTL RNLFRQIPEA ANLIKGVGGC S
Form/Format	Lyophilized
Preparation and Storage	Store the plasmid at -20 degree C.
OMIM	600749
3D Structure	ModBase 3D Structure for Q15744
Species	Human
Chromosome Location	14q11.2
OMIM Reference Number	600749
cDNA Size	846bp
Vector Description	This shuttle vector contains the complete ORF. It is inseted BamH I to Hind III. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.
Vector	(puc19-derived cloning vector)
Preparation Before Usage	1. Centrifuge at 7000rpm for 1 minute. 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.
Product Categories/Family for CEBPE cdna clone	Epigenetics and Nuclear Signaling

Related Product Information for CEBPE cdna clone	CEBPE is a bZIP transcription factor which can bind as a homodimer to certain DNA regulatory regions. It can also form heterodimers with the related protein CEBP-delta. Multiple variants of this gene have been described, but the full-length nature of only one has been determined.
Other Notes	Small volumes of CEBPE cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CEBPE purchase	MBS200881 is a cDNA clone targeting CEBPE.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CEBPE. It may not necessarily be applicable to this product.

NCBI GI #	28872800
NCBI GeneID	1053
NCBI Accession #	NP_001796.2
UniProt Primary Accession #	Q15744
UniProt Related Accession #	Q15744
GenBank Nucleotide #	NM_001805.3
NCBI Official Full Name	CCAAT/enhancer-binding protein epsilon
NCBI Official Synonym Full Names	CCAAT enhancer binding protein epsilon
NCBI Official Symbol	CEBPE
NCBI Official Synonym Symbols	CRP1; C/EBP-epsilon
UniProt Protein Name	CCAAT/enhancer-binding protein epsilon
Protein Family	CCAAT/enhancer-binding protein
UniProt Gene Name	CEBPE
UniProt Synonym Gene Names	C/EBP epsilon
UniProt Entry Name	CEBPE_HUMAN
NCBI Protein Information	CCAAT/enhancer-binding protein epsilon
NCBI Summary for CEBPE	The protein encoded by this gene is a bZIP transcription factor which can bind as a homodimer to certain DNA regulatory regions. It can also form heterodimers with the related protein CEBP-delta. The encoded protein may be essential for terminal differentiation and functional maturation of committed granulocyte progenitor cells. Mutations in this gene have been associated with Specific Granule Deficiency, a rare congenital disorder. Multiple variants of this gene have been described, but the full-length nature of only one has been determined. [provided by RefSeq, Jul 2008]

UniProt Comments for CEBPE	C/EBP-epsilon: C/EBP are DNA-binding proteins that recognize two different motifs: the CCAAT homology common to many promoters and the enhanced core homology common to many enhancers. Belongs to the bZIP family. C/EBP subfamily. Protein type: Transcription factor; Motility/polarity/chemotaxis; DNA-binding Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: nucleoplasm Molecular Function: protein homodimerization activity; protein heterodimerization activity Biological Process: macrophage differentiation; transcription, DNA-dependent; cytokine biosynthetic process; defense response to bacterium; positive regulation of transcription from RNA polymerase II promoter; defense response; phagocytosis Disease: Specific Granule Deficiency
Research Articles on CEBPE	**1.** CEBPE promoter polymorphism is associated with B-cell acute lymphoblastic leukemia.
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