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Product datasheet for RR216223

Cebpb (NM_001301715) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cebpb (NM_001301715) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cebpb
Synonyms:	Il6dbp; NF-IL6; TCF5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR216223 representing NM_001301715 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAAGTGGCCAACTTCTACTACGAGCCCGACTGCCTGGCCTACGGGGCCAAGGCGGCCCGCGCCGCGC CGCGCGCCCCCGCCGCCGAGCCGGCCATCGGCGAGCACGAGCGCGCCATCGACTTCAGCCCCTACCTGGA GCCGCTCGCGCCCGCCGCCGCGGACTTCGCCGCGCCCGCGCCCGCGCACCACGACTTCCTTTCCGACCTC TTCGCCGACGACTACGGCGCCAAGCCGAGCAAGAAGCCGTCCGACTACGGTTACGTGAGCCTCGGCCGCG CGGGCGCCAAGGCCGCACCGCCCGCCTGCTTCCCGCCGCCGCCTCCCGCCGCACTCAAGGCCGAGCCGGG CTTCGAACCCGCGGACTGCAAGCGCGCGGACGACGCGCCCGCCATGGCGGCCGGCTTCCCGTTCGCCCTG CGCGCCTACCTGGGCTACCAGGCGACGCCGAGCGGCAGCAGCGGCAGCCTGTCCACGTCGTCGTCGTCCA GCCCGCCCGGGACGCCGAGCCCCGCCGACGCCAAGGCCGCGCCCGCCGCCTGCTTCGCGGGGCCGCCGGC CGCGCCCGCCAAGGCCAAGGCCAAGAAGGCGGTGGACAAGCTGAGCGACGAGTACAAGATGCGGCGCGAG CGCAACAACATCGCGGTGCGCAAGAGCCGCGACAAGGCCAAGATGCGCAACCTGGAGACGCAGCACAAGG TGCTGGAGCTGACGGCGGAGAACGAGCGGCTGCAGAAGAAGGTGGAGCAGCTGTCGCGAGAGCTCAGCAC GCTGCGGAACTTGTTCAAGCAGCTGCCCGAGCCGCTGCTGGCCTCGGCGGGTCACTGC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

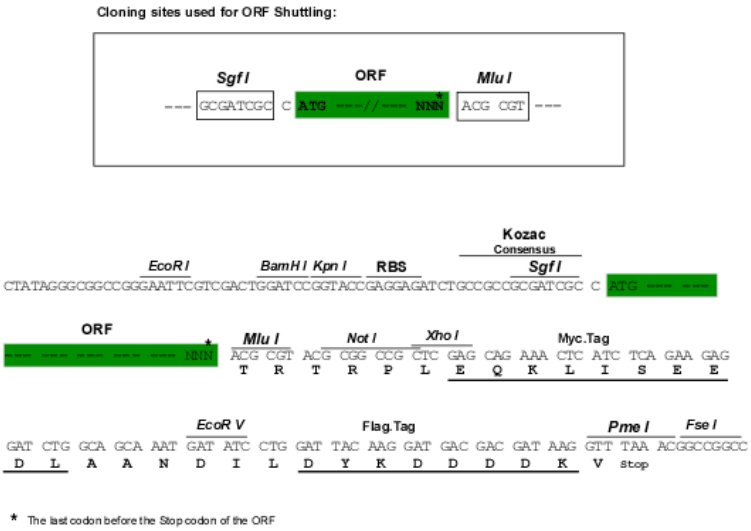
>RR216223 representing NM_001301715
Red=Cloning site Green=Tags(s)

MEVANFYYEPDCLAYGAKAARAAPRAPAAEPAIGEHERAIDFSPYLEPLAPAAADFAAPAPAHHDFLSDL
FADDYGAKPSKKPSDYGYVSLGRAGAKAAPPACFPPPPPAALKAEPGFEPADCKRADDAPAMAAGFPFAL
RAYLGYQATPSGSSGSLSTSSSSSPPGTPSPADAKAAPAACFAGPPAAPAKAKAKKAVDKLSDEYKMRRE
RNNIAVRKSRDKAKMRNLETQHKVLELTAENERLQKKVEQLSRELSTLRNLFKQLPEPLLASAGHC

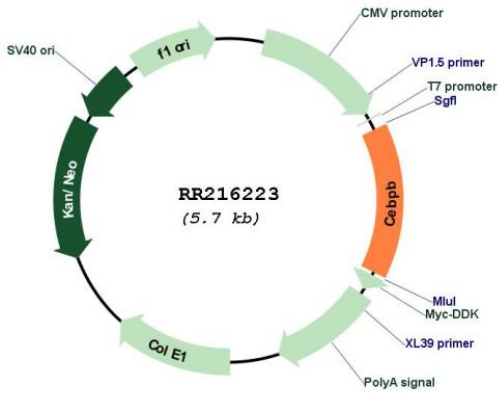
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301715

ORF Size: 828 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.
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:	NM_001301715.1, NP_001288644.1
RefSeq Size:	1475 bp
RefSeq ORF:	831 bp
Locus ID:	24253
UniProt ID:	P21272
Cytogenetics:	3q42
MW:	29.2 kDa
Gene Summary:	This intronless gene encodes a member of the transcription factor family whose members contain a basic leucine-zipper domain. The encoded protein functions as a homodimer but can also form heterodimers with CCAAT/enhancer-binding proteins alpha, delta, and gamma. The encoded protein plays important roles in several cellular processes and in various diseases, including regulating cell proliferation, differentiation, apoptosis and neuroinflammation, and being involved in brain injury and inflammatory progression. The use of alternative in-frame AUG start codons results in multiple protein isoforms, each with different cellular localizations and distinct biological functions. [provided by RefSeq, Sep 2014]