

Product datasheet for **RR216117**

Cebpa (NM_001287579) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Cebpa (NM_001287579) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Cebpa
 Synonyms: DBPCEP
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR216117 representing NM_001287579
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCGCGGGGCGCACGGACCCCTCCCGGCTACGGCTGTGCGGCGGGCGGCTACCTGGACGGCAGGC
 TGGAGCCCTGTACGAGCGCGTCGGGGCGCCCGCTGCGGCCGCTGGTGATCAAGCAGGAGCCCGCGCA
 GGAGGACGAGGCGAAGCAGCTGGCGCTGGCCGGCCTCTCCCCTATCAGCCCCGCGCCGCCCGCCCA
 CCGCACCCGCACGCGTCTCCCGCCTTGGCCGCCCTCACTTGCAGTTCAGATCGCACACTGCGGCC
 AGACCACCATGCACCTGCAGCCTGGCCACCCTACGCGCCGCGCCGACGCCCGTGGCCAGCCCTCATCCCGC
 GCCTGCAATGGGTGCTGCGGGCCTGCCGGGCCCGGGGCTCGCTCAAGGGCTTGGTGGTCCGCACCC
 GACCTCCGCACCGGGCGGGCGGGCGGGCGGGCGGGCAAGGCCAAGAAGTCGGTGGATAAGA
 ACAGCAACGAGTACCGGGTACGGCGGGAACGCAACAACATCGCGGTGCGCAAGAGCCGAGATAAAGCCAA
 ACAGCGCAACGTGGAGACGCAGCAGAAGGTGTTGGAGTTGACCAGTGACAATGACCGCCTGCGCAAGCGG
 GTGGAACAGCTGAGCCGTGAACCTGGACACGCTGCGGGTATCTCCGCCAGCTGCCTGAGAGTCCTTGG
 TCAAGGCCATGGCAACTGCGCG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA



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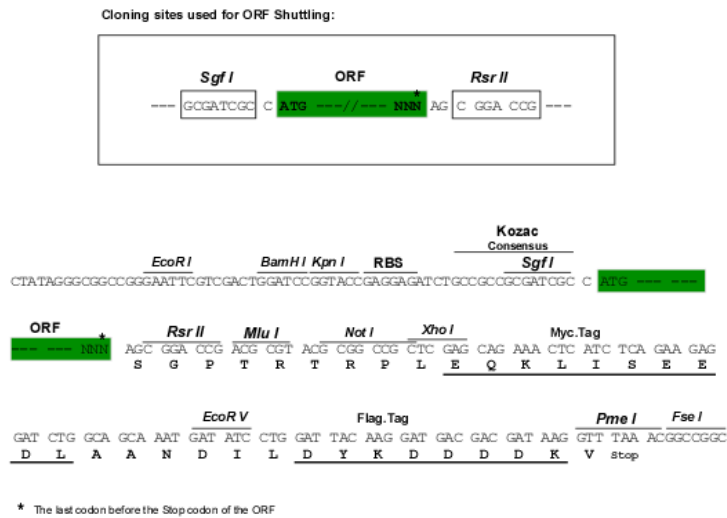
Protein Sequence: >RR216117 representing NM_001287579
 Red=Cloning site Green=Tags(s)

MSAGAHGPPPGYGCAAAGYLDGRLEPL YERVGAPALRPLVIKQEPREDEAKQLALAGLFPYQPPPPPP
 PHPHASPAPHLAAPHLQFQIAHCGQTTMHLQPGHPTPPPTPVSPHPAPAMGAAGLPGPGGSLKGLAGPH
 DLRTGGGGGGGAGAGKAKKSVDKNSNEYRVRERRNNIAVRKSRDKAKQRNVETQQKLVLELTSNDRLRKR
 VEQLSRELDTLRGI FRQLPESSLVKAMGNCA

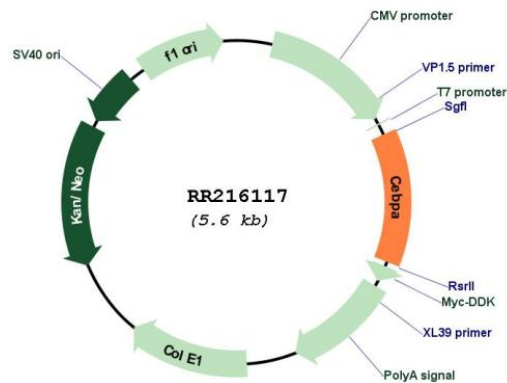
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287579

ORF Size: 723 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:	<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:	NM_001287579.1 , NP_001274508.1
RefSeq Size:	2673 bp
RefSeq ORF:	726 bp
Locus ID:	24252
UniProt ID:	P05554
Cytogenetics:	1q21
MW:	25.5 kDa
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 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, Aug 2014]