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Product datasheet for RR216558

Cebpa (NM_001287577) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cebpa (NM_001287577) 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:	>RR216558 representing NM_001287577 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC CTGCGCGGGCGCGGGCGAGTTGGGGTACTGGGTGGGCGGCGGCGACAGCGGCGCCACGCGCAGGCTGGAG GCCGCCGAGGCTCGCCATGCCGGGAGAACTCTAACTCCCCCATGGAGTCGGCCGACTTCTACGAGGCGGA GCCGCGGCCCCCCGATGAGCAGCCACCTCCAGAGCCCCCCGCACGCGCCCAGCAACGCCGCCTTTGGCTTT CCCCGGGGCGCGGGCCCCGCGCCGCCCCCAGCCCCACCTGCCGCCCCCGGAGCCGCTGGGCGGCATCTGCG AGCACGAGACGTCTATAGACATCAGCGCCTACATCGACCCGGCCGCCTTCAACGACGAGTTCCTGGCCGA CCTCTTCCAGCACAGCCGGCAGCAGGAGAAGGCCAAGGCGGCGGCGGGCCCCGCGGGTGGCGGCGGTGAC TTTGACTACCCGGGCGCCCCGGCGGGCCCCGGCGGTGCGGTCATGTCCGCGGGGGCGCACGGACCCCCTC CCGGCTACGGCTGTGCGGCGGCCGGCTACCTGGACGGCAGGCTGGAGCCCCTGTACGAGCGCGTCGGGGC GCCCGCGCTGCGGCCGCTGGTGATCAAGCAGGAGCCCCGCGAGGAGGACGAGGCGAAGCAGCTGGCGCTG GCCGGCCTCTTCCCCTATCAGCCCCCGCCGCCGCCGCCGCCACCGCACCCGCACGCGTCTCCCGCGCACT TGGCCGCCCCTCACTTGCAGTTCCAGATCGCACACTGCGGCCAGACCACCATGCACCTGCAGCCTGGCCA CCCTACGCCGCCGCCGACGCCCGTGCCCAGCCCTCATCCCGCGCCTGCAATGGGTGCTGCGGGCCTGCCG GGCCCCGGGGGCTCGCTCAAGGGCTTGGCTGGTCCGCACCCCGACCTCCGCACCGGCGGCGGCGGCGGCG GCGGGGCCGGCGCGGGCAAGGCCAAGAAGTCGGTGGATAAGAACAGCAACGAGTACCGGGTACGGCGGGA ACGCAACAACATCGCGGTGCGCAAGAGCCGAGATAAAGCCAAACAGCGCAACGTGGAGACGCAGCAGAAG GTGTTGGAGTTGACCAGTGACAATGACCGCCTGCGCAAGCGGGTGGAACAGCTGAGCCGTGAACTGGACA CGCTGCGGGGTATCTTCCGCCAGCTGCCTGAGAGCTCCTTGGTCAAGGCCATGGGCAACTGCGCG AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

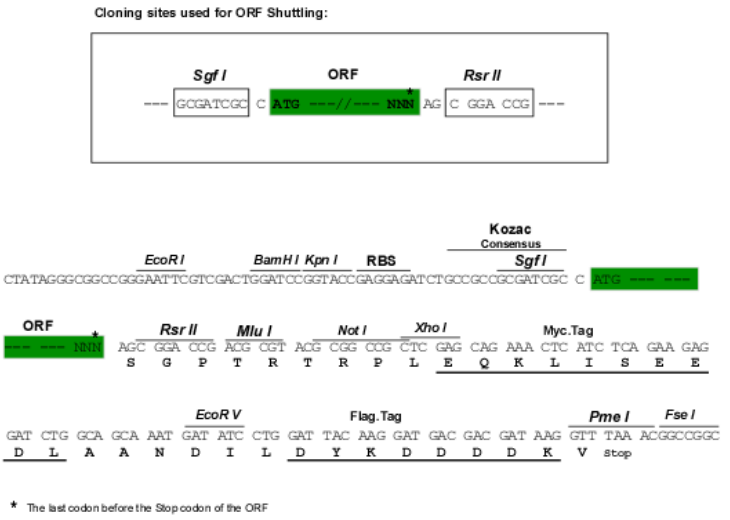
>RR216558 representing NM_001287577
Red=Cloning site Green=Tags(s)

LRGRGRVGVLGGRRRQRRHAQAGGRRGSPCRENSNSPMESADFYEAEPRPPMSSHLQSPPHAPSNAAFGF
PRGAGPAPPPAPPAAPEPLGGICEHETSIDISAYIDPAAFNDEFLADLFQHSRQQEKAKAAAGPAGGGGD
FDYPGAPAGPGGAVMSAGAHGPPPGYGCAAAGYLDGRLEPLYERVGAPALRPLVIKQEPREEDEAKQLAL
AGLFPYQPPPPPPPPHPHASPAHLAAPHLQFQIAHCGQTTMHLQPGHPTPPPTPVPSPHPAPAMGAAGLP
GPGGSLKGLAGPHPDLRTGGGGGGGAGAGKAKKSVDKNSNEYRVRRERNNIAVRKSRDKAKQRNVETQQK
VLELTSDNDRLRKRVEQLSRELDTLRGIFRQLPESSLVKAMGNCA

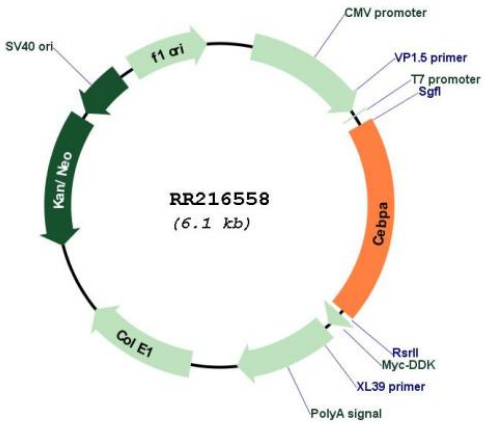
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287577

ORF Size:	1185 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_001287577.1, NP_001274506.1
RefSeq Size:	2673 bp
RefSeq ORF:	1188 bp
Locus ID:	24252
UniProt ID:	P05554
Cytogenetics:	1q21
MW:	41.4 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]