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Product datasheet for RR203689

Cebpa (NM_012524) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cebpa (NM_012524) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cebpa
Synonyms:	DBPCEP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR203689 representing NM_012524
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCGGCCGACTTCTACGAGGCGGAGCCGCGGCCCCCGATGAGCAGCCACCTCCAGAGCCCCCCGC
ACGCGCCCAGCAACGCCGCCTTTGGCTTTCCCCGGGGCGCGGGCCCCGCGCCGCCCCCAGCCCCACCTGC
CGCCCCGGAGCCGCTGGGCGGCATCTGCGAGCACGAGACGTCTATAGACATCAGCGCCTACATCGACCCG
GCCGCCTTCAACGACGAGTTCCTGGCCGACCTCTTCCAGCACAGCCGGCAGCAGGAGAAGGCCAAGGCGG
CGGCGGGCCCCGCGGGTGGCGGCGGTGACTTTGACTACCCGGGCGCCCCGGCGGGCCCCGGCGGTGCGGT
CATGTCCGCGGGGGCGCACGGACCCCCTCCCGGCTACGGCTGTGCGGCGGCCGGCTACCTGGACGGCAGG
CTGGAGCCCCTGTACGAGCGCGTCGGGGCGCCCGCGCTGCGGCCGCTGGTGATCAAGCAGGAGCCCCGCG
AGGAGGACGAGGCGAAGCAGCTGGCGCTGGCCGGCCTCTTCCCCTATCAGCCCCCGCCGCCGCCGCCGCC
ACCGCACCCGCACGCGTCTCCCGCGCACTTGGCCGCCCCTCACTTGCAGTTCCAGATCGCACACTGCGGC
CAGACCACCATGCACCTGCAGCCTGGCCACCCTACGCCGCCGCCGACGCCCGTGCCCAGCCCTCATCCCG
CGCCTGCAATGGGTGCTGCGGGCCTGCCGGGCCCCGGGGGCTCGCTCAAGGGCTTGGCTGGTCCGCACCC
CGACCTCCGCACCGGCGGCGGCGGCGGCGGGGCCGGCGCGGGCAAGGCCAAGAAGTCGGTGGATAAG
AACAGCAACGAGTACCGGGTACGGCGGGAACGCAACAACATCGCGGTGCGCAAGAGCCGAGATAAAGCCA
AACAGCGCAACGTGGAGACGCAGCAGAAGGTGTTGGAGTTGACCAGTGACAATGACCGCCTGCGCAAGCG
GGTGGAACAGCTGAGCCGTGAACTGGACACGCTGCGGGGTATCTTCCGCCAGCTGCCTGAGAGCTCCTTG
GTCAAGGCCATGGGCAACTGCGCG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

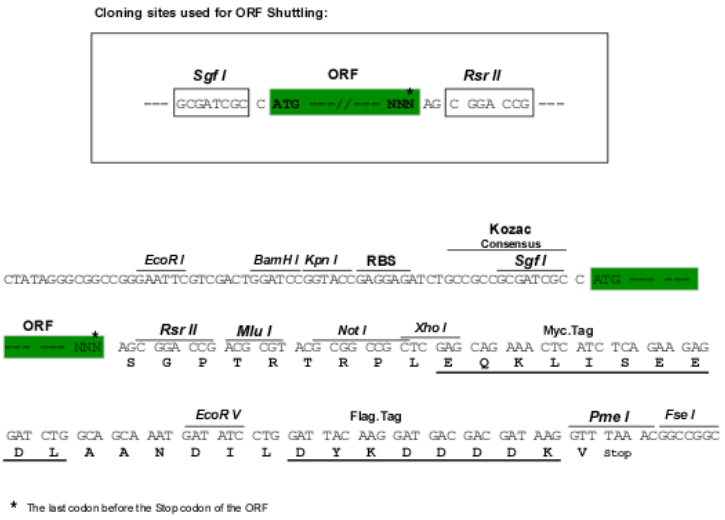
>RR203689 representing NM_012524
Red=Cloning site Green=Tags(s)

MESADFYEAEPRPPMSSHLQSPPHAPSNAAFGFPRGAGPAPPPAPPAAPEPLGGICEHETSIDISAYIDP
AAFNDEFLADLFQHSRQQEKAKAAAGPAGGGGDFDYPGAPAGPGGAVMSAGAHGPPPGYGCAAAGYLDGR
LEPLYERVGAPALRPLVIKQEPREEDEAKQLALAGLFPYQPPPPPPPPHPHASPAHLAAPHLQFQIAHCG
QTTMHLQPGHPTPPPTPVPSPHPAPAMGAAGLPGPGGSLKGLAGPHPDLRTGGGGGGGAGAGKAKKSVDK
NSNEYRVRRERNNIAVRKSRDKAKQRNVETQQKVLELTSDNDRLRKRVEQLSRELDTLRGIFRQLPESSL
VKAMGNCA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_012524

ORF Size: 1074 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_012524.3, NP_036656.1

RefSeq Size: 2673 bp

RefSeq ORF: 1077 bp

Locus ID: 24252

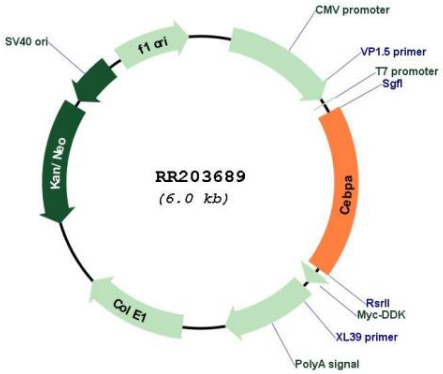
UniProt ID: P05554

Cytogenetics: 1q21

MW: 37.4 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]

Product images:



Circular map for RR203689