

## Product datasheet for **MR229690**

### Cebpa (NM\_001287514) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cebpa (NM\_001287514) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cebpa  
**Synonyms:** C/ebp; C/ebpalpha; CBF-A; Ceb; Cebp  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR229690 representing NM\_001287514  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

CTGCGCGGGCGCGAGCCAGTTGGGGCACTGGTGGGCGGCGCGACAGCGGCCACGCGCAGGCTGGAG  
GCCGCCGAGGCTCGCCATGCCGGGAGAAGTCTAACTCCCCATGGAGTCGGCCGACTTCTACGAGGTGGA  
GCCGCGGCCCGGATGAGCAGTACCTCCAGAGCCCCCGCACGCGCCAGCAAGCCGCTTTGGCTTT  
CCCCGGGGCGCGGGCCCCGCGCCGCCACCTGCGCCCCGGAGCCGCTGGGCGGCATCTGCC  
AGCACGAGACGTCTATAGACATCAGCGCTACATCGACCCGGCCGCTTCAACGACGAGTTCTGGCCGA  
CCTCTTCCAGCACAGCCGACAGCAGGAGAAGGCCAAGCGGCGGGCCCCGCGGGTGGCGGGGTGAC  
TTTGACTACCCGGGAGCCCCGGCGGGCCCCGGCGCGCGGTATGTCCGCGGGGGCGCACGGGCCCTC  
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GCCGGCCTTTCCCTACCAGCCACCGCCACCACCACCGCCGACCCGCACGCGTCTCCCGCGCACC  
TGCCCGCCCCCACTTGCAGTTCAGATCGCGCACTGCGGCCAGACCACCATGCACCTGCAGCCTGGCCA  
CCCCACCCGCCCCACGCCCGTGCAGCCGACGCTGCGCCCGCCTTGGGTGCTGCGGGCCTGCCT  
GGCCCCGGGAGCGCGCTCAAGGGCTTGGCCGGTGCACCCCCGACCTCCGCACGGGAGGCGGGCGGGT  
GCAGCGGTGCCGTGCGGGCAAAGCCAAAGTCCGGTGGACAAGAAGCAGCAACGAGTACCGGTACGGCG  
GGAACGCAACAACATCGCGGTGCGCAAGAGCCGAGATAAAGCCAAACAACGCAACGTGGAGACGCAACAG  
AAGGTGCTGGAGTTGACCAGTGACAATGACCGCTGCGCAAGCGGGTGGAAACAGCTGAGCCGTGAAGTGG  
ACACGCTGCGGGGCATCTCCGCCAGCTGCCTGAGAGCTCCTTGGTCAAGGCCATGGGCAACTGCGCG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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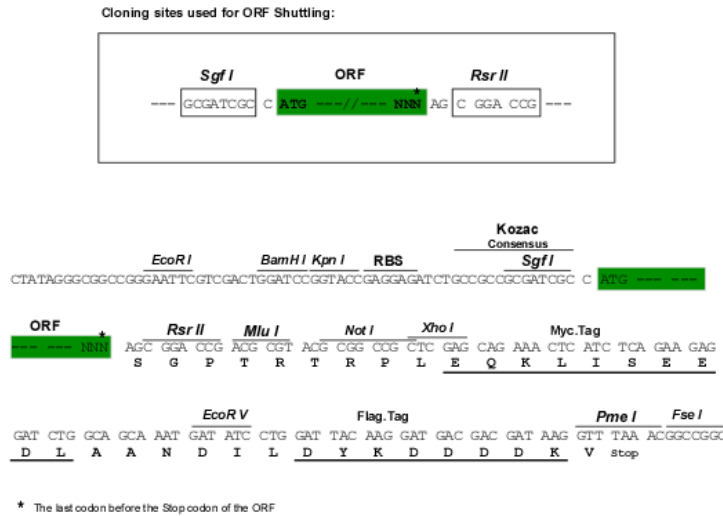
**Protein Sequence:** >MR229690 representing NM\_001287514  
 Red=Cloning site Green=Tags(s)

LRGREPVGALGGRRRQRHAQAGGRRGSPCRENSNPMESADFYEVPRPPMSSHLQSPPHAPSNAAFGF  
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 FDYPGAPAGPGGAVMSAGAHGPPPGYGCAAAGYLDGRLEPLYERVGAPALRPLVIKQEPREDEAKQLAL  
 AGLFPYQPPPPPPHSPHAHLAAPHLQFQIAHCGQT TMLHQPGHPTPPPTPVSPHAAPALGAAGLP  
 GPGSALKGLAGHPDLRTGGGGGSGAGAGKAKKSVDKNSNEYRVRERENNIIVRKRSDKAKQRNVETQQ  
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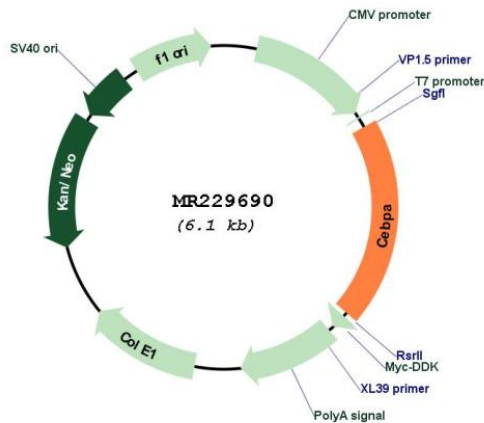
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001287514

<b>ORF Size:</b>	1188 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001287514.1</a> , <a href="#">NP_001274443.1</a>
<b>RefSeq Size:</b>	2636 bp
<b>RefSeq ORF:</b>	1191 bp
<b>Locus ID:</b>	12606
<b>UniProt ID:</b>	<a href="#">P53566</a>
<b>Cytogenetics:</b>	7 21.02 cM
<b>MW:</b>	41.9 kDa
<b>Gene Summary:</b>	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 several 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, Sep 2014]