

Product datasheet for **RN215898**

Cebpb (NM_001301720) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Cebpb (NM_001301720) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Cebpb |
| Synonyms: | Il6dbp; NF-IL6; TCF5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >RN215898 representing NM_001301720 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCCGGCTTCCCGTTGCGCCTGCGCGCTACCTGGGCTACCAGGCGACGCCGAGCGGCAGCAGCG
 GCAGCCTGTCCACGTCGTCGTCAGCCCGCCGGGACGCCGAGCCCGCCGACGCCAAGGCCGCGCC
 CGCCGCTGCTTCGCGGGGCCGCGCCGCGCCGCCAAGGCCAAGGCCAAGAAGCGGTGGACAAGCTG
 AGCGACGAGTACAAGATCGGCGCGAGCGCAACAACATCGCGGTGCGCAAGAGCCGCGACAAGGCCAAGA
 TCGCAACCTGGAGACGACGACAAGGTGCTGGAGCTGACGGCGGAGAACGAGCGGCTGCAGAAGAAGGT
 GGAGCAGCTGTCGCGAGAGCTCAGCACGCTGCGGAACCTGTTCAAGCAGCTGCCCGAGCCGCTGCTGGCC
 TCGGCGGGTCACTG**CTAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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| Restriction Sites: | Sgfl-MluI |
| ACCN: | NM_001301720 |
| Insert Size: | 438 bp |

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).


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| OTI Annotation: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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: | <u>NM_001301720.1, NP_001288649.1</u> |
| RefSeq Size: | 1475 bp |
| RefSeq ORF: | 438 bp |
| Locus ID: | 24253 |
| UniProt ID: | <u>P21272</u> |
| Cytogenetics: | 3q42 |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (1) encodes multiple isoforms through the use of alternative translation initiation codons. The isoform [LIP (liver inhibitory protein) or p20] represented in this RefSeq results from translation initiation at a downstream AUG start codon. Isoform LIP has a shorter N-terminus, compared to isoform LAP1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |