

## Product datasheet for **RN200750**

### Aebp1 (NM\_001100970) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aebp1 (NM\_001100970) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Aebp1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN200750 representing NM\_001100970  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGCGGTACGCACCGCATCCCTGCTCTGCGGCTCTTGGCACTCCTGGCGCTGTGCCCGAGGGGA  
 GCCACAGACGGTGTGACGGACGACGAGATCCAGGAGTTCCTCGAAGGCTTCTTTTCGGAGTTTGAGAC  
 CCAGTCCCGCCCGGGGAGGACGACGTGGAAGCCAGCCACTTCCGAACCCACCCAGCGTGCCCGCAA  
 TCCAAGGCAGGGGCAAGCCGCGGGCAGATGCAGAAGCCCTCCAGAAAAGAACAAGACAAGAGAAGA  
 AAGGAAAGAAGGACAAAGGCCCAAGGCTGCAAAAACACCTGGAAGTTCCACCAGGCCACCAAGAAACC  
 AAAGGAGAAGCCACCAAGGCCACCAAGAAGCCAAAGAGAAGCCACCAAGGCCACCAAGAAGCTAAA  
 GAGAAGCCACCAAGGCCACCAAGAAGCCAAAGGAGAAGCCACCAAGGCCACTAAGAGGCCCTCGGCAG  
 GAAAGAGATTCTCAACTGTAGCCCTTAGAAACGCCGGAGCGTTCACTCACCTCACCTCCAACCCCGG  
 CACCAGGGAGCTACCAGAGGAGAGGAAGAACCTCCCTGAATACCTGGCAGGGCCAAGGAGAAGAGACC  
 CAAGTGGAGGCCAGGCAGCACCCGCCAGAGCCAGAGGAGGAGACCAGATGCCACACTGGACTACAATG  
 ACCAGATAGAGCGGAAGATTATGAAGACTTTGAGTACATCAGGCGCCAGAAGCAGCCAGACCCACACC  
 CAGCAGGAAGAGGATCTGGCCAGAGCCCTGAGGAGAAGACCAAGAGCCGAGAAAGGAAGGAAGTT  
 GATCCGCCTCTGAAGCCCTGTTGCCCTGACTATGGGGATGGTACTTATGATCCCAACTACGATGACT  
 TGGACTACTACTTCCCCACCCACCACAGAAGCCGATGTTGGACAAGAGGTGGATGAAGAAAAGGA  
 GGAGTTGAAGAAGCCAAAAGGAGGGCAGTAGCCCAAGGAGGACACAGAAGACAAGTGGGCGGCAGAG  
 AAAACAAGGACCACAAAGCAGGACCCCGAAGGGCGAGGAGCTGGAGGAGGAGTGGGTTCCAGTGGAGA  
 AAATCAAGTGCCACCTATCGGGATGGAGTCACACCGCATTGAGGACAACCAGATCCGCGCTCTCCAT  
 GCTGCGCCATGGCTCGGAGCCAGCGGGCCGGCTCAACATGCAGGCTGGTCCAATGAAGATGACTAC  
 TATGATGGGCATGGTGTGCTGAGGACGAGTCTCAGACCCAGTGGATTGAGGTGGACCCCGGAGACGA  
 CTCGGTTACAGCGGTGATTACACAGGGTCGGGACTCCAGCATCCATGACGACTTTGTGACTACCTTCTT  
 CGTGGGCTTCAGCAATGACAGCCAGACCTGGGTGATGTACACCAATGGCTATGAGGAAATGACCTTCCAT  
 GGGAAATGTGGATAAGGACACACCTGTGCTGAGTGAACCTCCCGAGCCAGTTGTGGCCGTTTCATCCGCA  
 TCTATCCACTCACCTGGAACGGTAGCCTGTGCATGCGCCTGGAGGTGCTAGGCTGCCCTGTGACCCCTGT  
 CTACAGCTACTACGCACAGAACGAGGTGGTGACCACTGACAGCCTGGACTTCCGGCACCACAGCTACAAG



[View online »](#)

GACATGCCCCAGCTGATGAAGTTGTGAATGAGGAGTGTCTACCATTACCCGCACGTACAGCTTGGGCA  
 AGAGTTCACGAGGGCTCAAGATCTATGCGATGGAGATCTCAGACAACCCCGGGGAGCATGAGCTGGGGGA  
 GCCTGAGTTCCGCTACACAGCCGGCATGCACGGCAATGAGGTGCTGGGCCGAGAGCTGCTGTTACTGCTC  
 ATGCAGTACCTGTGTACGAGTACCGGGATGGGAACCCAGAGTGCCTAACCTGGTGCAGGACACGCGCA  
 TCCACCTGGTGCCTTCGCTGAACCTGACGGCTACGAGGTGGCAGCGCAGATGGGCTCAGAGTTTGGGAA  
 CTGGGCACTGGGCTGTGGACTGAGGAGGGCTTTGACATCTTCGAGGATTTCCAGATCTCAACTGTG  
 CTCTGGCAGCTGAGGAGAAGAAATGGGTCCCCTACAGGGTCCCGAACAAATAACTTGCCAAATCCCTGAAC  
 GTTACCTGTCCCCAGATGCCACGGTATCCACAGAAGTCCGGGCCATCATTTCTGGATGGAGAAGAACC  
 CTTTGTGCTGGGTGCAAATCTGAATGGTGGCGAGCGGCTTGTGTCTTACCCTATGACATGGCCCGGACA  
 CCTAGCCAGGAGCAGCTGTTGGCCGCGCACTGGCAGCTGCCCGTGGAGAAGACGAGGATGAGGTGTCTG  
 AGGCCAGGAGACTCCAGATCACGCCATTTTCCGCTGGCTATCTCCTTTGCCTCTGCCATCTCAC  
 CATGACTGAGCCCTACCGGGGAGGGTGCCAGGCCAGGACTACACCAGCGGCATGGGTATCGTCAACGGG  
 GCCAAGTGAATCCTCGGTCTGGGACTTCAATGACTTCACTACCTGCATACCAACTGCCTGGAGCTCT  
 CTATATACCTGGGCTGCGACAAGTTCACCCACGAGAGCGAGCTGCCCGAGAGTGGGAGAACAACAAGA  
 AGCCTTGTAACCTTTCATGGAGCAGGTGCACCGTGGCATCAAGGGTGTGGTGACGGATGAGCAAGGGATC  
 CCCATTGCCAATGCTACCATCTCTGTGAGTGGCATCAACCACGGAGTAAAGACAGCGAGTGGAGGTGACT  
 ACTGGCGCATTCTGAACCCGGGTGAGTACCGTGTGACAGCTCACGCAGAGGGCTACACCTCGAGTGCCAA  
 GATTTGCAACGTGGACTACGATATCGGGGCCACCCAGTGAACCTTCACTCTGGCGCGCTCCAAGTGAAG  
 CGCATTCCGGGAGATCTTGGCTATGAACGGGAACCGTCCCATTCTCCGAGTTGACCCTCACGACCAATGA  
 CACCCAGCAGCGGCGCTGCAGCAGCGCCGGCTACGGTACCGGCTCAGGATGAGGGAACAGATGAGGCT  
 GCGGGCCCTCAATTCTACCACAGGCCCTGCCACGAGCCCCACTCCTGCCCTTACGCTGCCTCCTCCCCT  
 ACACCAGGCAGTACCTCGAGGCTCTGGGAAATTCTACCCACTACCGCTGCGGGCTGGGAGGAGTCAGAGA  
 CTGAGACCTATACAGAGGTAGTGACAGAGTTTGACAGAGATATGGCCCTGACCTGGAGGTGGAGGAAT  
 GGAGGAGGAGGAGGAGGAGGAGGAGATGGACACAGGCCTCACGTTTCCAGTCAACAACAGTGGAGACC  
 TACACAGTCAACTTTGGGGACTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_001100970

**Insert Size:**

3387 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_001100970.1](#), [NP\\_001094440.1](#)

**RefSeq Size:** 3817 bp

**RefSeq ORF:** 3387 bp

**Locus ID:** 305494

**UniProt ID:** [A2RUV9](#)

**Cytogenetics:** 14q21

**Gene Summary:** As a positive regulator of collagen fibrillogenesis, it is probably involved in the organization and remodeling of the extracellular matrix (By similarity). May positively regulate MAP-kinase activity in adipocytes, leading to enhanced adipocyte proliferation and reduced adipocyte differentiation. May also positively regulate NF-kappa-B activity in macrophages by promoting the phosphorylation and subsequent degradation of I-kappa-B-alpha (NFKBIA), leading to enhanced macrophage inflammatory responsiveness. Can act as a transcriptional repressor. [UniProtKB/Swiss-Prot Function]