

Product datasheet for **SC309967**

AE binding protein 1 (AEBP1) (NM_001129) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AE binding protein 1 (AEBP1) (NM_001129) Human Untagged Clone
Tag:	Tag Free
Symbol:	AE binding protein 1
Synonyms:	ACLP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001129 edited
GAGACCCAGAGCCCTGACCCCCGCGCCCTCCCCGGAGACCCCCGCGGTGCCGCGGCC
ATGGCGGCGGTGCGCGGGGCGCCCTGCTCAGTCGCTCCTGGCGTTGCTGGCCCTGTGC
CCTGGAGGGCGCCCGCAGACGGTCTGACCGACGACGAGATCGAGGAGTTCCTCGAGGGC
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GAGAAAGTCAAGTGTCCCCCATTGGGATGGAGTACACCGTATTGAGGACAACAGATC
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ACCCAGTGGATAGAGGTGGACACCAGGAGGACTACCCGGTTCACAGGCGTCATCACCAG
GGCAGAGACTCCAGCATCATGACGATTTTGTGACCACCTTCTTCTGGGCTTCAGCAAT
GACAGCCAGACATGGGTGATGTACCAACGGCTATGAGGAAATGACCTTTCATGGGAAC



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GTGGACAAGGACACACCCGTGCTGAGTGAGCTCCCAGAGCCGGTGGTGGCTCGTTTCATC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001129 unedited
AACATTGCGACGAGNAGACCCAAAGCCCCTGACCCCCGCGCCCTCCCCGGAGCCCCCG
CGCGTGCCGCGGCCATGGCGGCCGTGCGCGGGCGCCCCCTGCTCAGCTGCCTCCTGGCGT
TGCTGGCCCTGTGCCCTGGAGGGCGCCCCGAGACGGTGTGACCGACGACGAGATCTTTG
AGTTCTCGAGGGCTTCTGTGACAGCTAGAACCTGAGCCCCGGGAGGACGACGTGGAGG
CCCCGCCGCTCCCGAGCCCACCCCGGGTCCGAAAAGCCCAGCGGGGGCAAGCCAG
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AAGGCAAGAAAGACAAAGGCCCAAGGTGCCCAAGGAGTCTTGAGGGGTCCCCAGGC
CGCCCAAGAAGGGGAAGGAGAAGCCACCCAAGGCCACCAAGAAGCCCAAGGAGAAGCCAC
CTAAGGCCACCAAGAAGCCCAAGGAGAAGCCACCCAAGGCCACCAAGAAGCCCAAGAGA
AGCCACCAAGGCCACCAAGAAGCCCCGTGAGGGAAGAGGCCCCCCATTCTGGCTCCCT
CAGAAACCCTGGAGTGGCACTGCCCCACCCCCAGCCCTGGCCCCGAGGAGTACCCC
ANNAGAGGGGGCGCCCTCTCAAATACTGGCAGAATCCCAGAGAGGAGACCCATGNTGA
GGCACGGGAGCACAGCCTGAGCCGNNAGAGAGACCGAGCAACCACTGGACTACAAT
GACCAGATCGAGAGGGGAGACTATNGAGACTTTGAGTACTTNNCGCGCCAGAGCAACCA
GGCCACCCAGCAAAAGGAGAGCCCGAGCGGTCTGGCCAGACCCCTGAGAAAAGCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001129 unedited
GCTTGCCCGGCCGCATCTAAATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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TTGCCCTACTCCAACACTGGAGCAACCCATTTTTTACCAAAGTGGCAGGGGGAGCAAG
AACCTTTACACAGCCTCTGGCTCTTAAGGCCAATCATGTTTGCACCCCTCAAAGGGGC
AGGACCAACCCTTCTTTAATGGCCATACCAAGGGCCTTCCATGTGCTGATGGGGGAAG
TGACTGGGGCAACAAGCTTGGGAAAAGCTGCTGCTGTAAGTGAATTGGGCTGGGGTCT
TGGTAAGACCCTGATCTCAAAAATCCCCAAAGTCACTGGTAAGGCTCTACTGGTGTGA
AAGGGAATGCCTGGCCAGTGGCTATCTCCTCCTTTCTCCTCCTCCCTCCCTTCTCAA
ACTCGGGTTCCAAGTGGTCTCAAACTCAAGTCCAAGTGGGGTCAAAGTCCGGGCTCCA
CCTTGGTCCCAAAGTCCGGCTCCACCTCGGGCCCAAAGTCTGTACCACCTCTGTGTAAG
GCTCAATCTCCGACTCCTCCCAACCAACGGTGGGTGGCGGTATAAAGCCCCAGGGCTCTA
TAGTAATGCTCAAGGTGGTGGGAAGGGCAAGGCCACGTAGGGAAGGCCACAGGTGGGG
CCCAGGGCGGGGGGGGGTTGAAGCGCCCAACCCATTTGTGCCAAACCCACACGCGTG
GTATAAACCCACCTCCAGCGGCCCTGCTGGCGGGGTATAGGCCCAAGAGCTCTTT
TGTGGGATAGCGCACTCCCTCTCCGCGACGAACTCCCCCAGCGCCACCGTTGGAGGC
GCCACCCAGACTTGCCTTCCCGGCCCCACNTAACTACCCTTCCGCGTTGAGCA

Restriction Sites:

NotI-NotI

ACCN:

NM_001129

Insert Size:

3900 bp

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
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_001129.3, NP_001120.3</u>
RefSeq Size:	4125 bp
RefSeq ORF:	3477 bp
Locus ID:	165
UniProt ID:	<u>Q8IUX7</u>
Cytogenetics:	7p13
Domains:	F5_F8_type_C, Zn_carbOpept
Protein Families:	Druggable Genome, Protease, Transcription Factors
Gene Summary:	<p>This gene encodes a member of carboxypeptidase A protein family. The encoded protein may function as a transcriptional repressor and play a role in adipogenesis and smooth muscle cell differentiation. Studies in mice suggest that this gene functions in wound healing and abdominal wall development. Overexpression of this gene is associated with glioblastoma. [provided by RefSeq, May 2013]</p>