

Product datasheet for **RC207782**

AE binding protein 1 (AEBP1) (NM_001129) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AE binding protein 1 (AEBP1) (NM_001129) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AEBP1
Synonyms:	ACLP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC207782 representing NM_001129 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGCGGTGCGCGGGGCGCCCTGCTCAGCTGCCTCCTGGCGTTGCTGGCCCTGTGCCCTGGAGGGC
GCCCGCAGACGGTGTGACCGACGACGAGATCGAGGAGTTCCTCGAGGGTTCCTGTGAGAGCTAGAACC
TGAGCCCCGGGAGGACGACGTGGAGGCCCGCCGCTCCCGAGCCACCCCGGGTCCGAAAAGCCAG
CGGGGGGCAAGCCAGGAAGCGCCAGGGACGGCCGAGAAAGTCCCTCCGAAAAGACCAAGACAAAG
GGAAGAAAGCAAGAAAGACAAAGGCCCAAGGTGCCAAGGAGTCCCTGGAGGGGTCCCCAGGCCGCC
CAAGAAGGGGAAGGAGAAGCCACCCAAGGCCACCAAGAAGCCCAAGGAGAAGCCACCTAAGGCCACCAAG
AAGCCCAAGGAGAAGCCACCCAAGGCCACCAAGAAGCCCAAGAGAAGCCACCCAAGGCCACCAAGAAGC
CCCCGTCAGGGAAGAGGCCCCCAATTCTGGCTCCCTCAGAAACCTGGAGTGGCCACTGCCCCACCCCC
CAGCCCTGGCCCCGAGGAGCTACCCAGGAGGGAGGGCGCCCTCTCAAATAACTGGCAGAATCCAGGA
GAGGAGACCCATGTGGAGGCACGGGAGCACCAGCCTGAGCCGGAGGAGGAGACCGAGCAACCCACTGG
ACTACAATGACCAGATCGAGAGGGAGGACTATGAGGACTTTGAGTACATTCGGCGCCAGAAGCAACCCAG
GCCACCCCAAGCAGAAGGAGGAGGCCCGAGCGGTCTGGCCAGAGCCCTGAGGAGAAGGCCCCCGGCC
CCAGCCCCGAGGAGAGGATTGAGCCTCCTGTGAAGCCTCTGCTGCCCCCGCTGCCCCCTGACTATGGTG
ATGTTTACGTGATCCCCAACTACGATGACATGGACTATTACTTTGGGCTCCTCCGCCCCAGAAGCCCGA
TGCTGAGCGCCAGACAGCAAGAGAAGGAGGAGCTGAAGAAACCCAAAAAGGAGGACAGCAGCCCCAAG
GAGGAGACCGACAAGTGGCAGTGGAGAAGGGCAAGGACCACAAAGAGCCCGAAAGGGCGAGGAGTTGG
AGGAGGAGTGGACGCTACGGAGAAAGTCAAGTGTCCCCCATTGGGATGGAGTACACCCGATTGAGGA
CAACCAGATCCGAGCCTCCTCCATGCTGCGCCACGGCCTGGGGGCACAGCGCGCCGCTCAACATGCAG
ACCGGTGCCACTGAGGACGACTACTATGATGGTGGTGGTGTGCCGAGGACGATGCCAGGACCCAGTGG
TAGAGGTGGACACCAGGAGGACTACCCGTTTACAGGCGTCATACCCAGGGCAGAGACTCCAGCATCCA
TGACGATTTTGTGACCACCTTCTCGTGGGCTTACGCAATGACAGCCAGACATGGGTGATGTACACCAAC
GGCTATGAGGAAATGACCTTTCATGGGAACGTGGACAAGGACACACCCGTGCTGAGTGAGCTCCAGAGC



[View online »](#)

CGGTGGTGGCTCGTTTCATCCGCATCTACCCACTCACCTGGAATGGCAGCCTGTGCATGCGCCTGGAGGT
GCTGGGGTGTCTGTGGCCCTGTCTACAGCTACTACGCACAGAATGAGGTGGTGGCCACCGATGACCTG
GATTTCCGGCACCACAGCTACAAGGACATGCGCCAGCTCATGAAGGTGGTGAACGAGGAGTGCCCA
TCAACCCGACTTACAGCCTGGGCAAGAGCTCACGAGGCCCAAGATCTATGCCATGGAGATCTCAGACAA
CCCTGGGAGCATGAACGGGGAGCCGAGTTCCGCTACACTGCTGGGATCCATGGCAACGAGGTGCTG
GGCCGAGAGCTGTTGCTGCTGCTCATGCAGTACCTGTGCCGAGAGTACCGCATGGGAACCCACGTGTC
GCAGCTGGGCTCAGAGTTTGGAACTGGGCGCTGGGACTGTGACTGAGGAGGGCTTTGACATCTTTGAA
GATTTCCCGATCTCAACTCTGTGCTCTGGGAGCTGAGGAGAGGAAATGGGTCCCTACCGGGTCCCA
ACAATAACTTGCCATCCCTGAACGCTACCTTTGCGCAGATGCCACGGTATCCACGGAGGTCCGGGCCAT
CATTGCCTGGATGGAGAAGAACCCTTCGTGCTGGGAGCAAATCTGAACGGCGGCGAGCGCTAGTATCC
TACCCCTACGATATGGCCCGCACGCTACCCAGGAGCAGCTGCTGGCCGAGCCATGGCAGCAGCCCGG
GGGAGGATGAGGACGAGGTCTCCGAGGCCAGGAGACTCCAGACCAGCCATCTCCGGTGGCTTGCAT
CTCCTTCGCTCCGCACCTCACCTTGACCGAGCCCTACCGCGAGGCTGCCAAGCCCAGGACTACCC
GGCGGCATGGGCATCGTCAACGGGGCAAGTGGAAACCCCGGACCGGGACTATCAATGACTTCAGTTACC
TGATACCAACTGCCTGGAGCTCTCCTTACCTGGGCTGTGACAAGTCCCTCATGAGAGTGAGCTGCC
CCGCGAGTGGGAGAAACAAGGAGGCGTGTCACTTCATGGAGCAGGTGCACCCGCGCATTAAAGGGG
GTGGTGACGGACGAGCAAGGCATCCCCATTGCCAACGCCACCATCTGTGAGTGGCATTAAACACGGCG
TGAAGACAGCCAGTGGTGGTGAATGAGGCAATCTTGAACCCGGGTGAGTACCGCGTGACAGCCACGC
GGAGGGCTACACCCGAGCGCAAGACCTGCAATGTTGACTATGACATCGGGGCCACTCAGTGAACCTTC
ATCCTGGCTCGCTCCAAGTGAAGCGCATCCGGGAGATCATGGCCATGAACGGGAACCCGGCTATCCCAC
ACATAGACCCATCGCGCCTATGACCCCAACAGCGACGCTGCAGCAGCGACGCTACAACCCGCT
GGGCTTCGGGCACAGATGCGGCTGCGGCGCTCAACGCCACCACCCTAGGCCCCACACTGTGCT
CCACGCTGCCCCCTGCCCTGCCACCACCCTGAGCACTACCATAGAGCCCTGGGGCCTCATACCGCAA
CCACCGCTGGCTGGGAGGAGTCCGAGACTGAGACCTACACAGAGGTGGTACAGAGTTTGGGACCGAGGT
GGAGCCCGAGTTTGGGACCAAGGTGGAGCCGAGTTTGGAGCCAGTTGGAGCCTGAGTTTGGAGCCAG
CTGGAACCCGAGTTTGGGAAGAGGAGGAGGAGGAGAAAGAGGAGGAGATAGCCACTGGCCAGGCATTCC
CCTTCACAACAGTAGAGACCTACACAGTGAACCTTGGGGACTTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207782 representing NM_001129
Red=Cloning site Green=Tags(s)

MAAVRGAPLLSCLLALLALCPGGRPQTVLTDDEIEEFLEGFLSELEPEPREDDVEAPPPPEPTPRVRKAQ
 AGGKPGKRPGTAAEVPPEKTKDKGKGGKDKGPKVPKESLEGSPPPKGKEKPPKATKKPKKEKPPKATK
 KPKEKPPKATKKPKKEKPPKATKKPPSGKRPPILAPSETLEWPLPPPPSPGPEELPQEGGAPLSNNWQNP
 EETHVEAREHQPEPEEETEQPTLDYNDQIEREDYEDFEYIRRQKQPRPPPSRRRRPERVWPEPEEKAPA
 PAPEERIEPPVKPLLPPLPPDYGDYVIPNYDDMDYFPGPPQKPAERQTDDEEELKKPKKEDSSPK
 EETDKWAVEKGDHKEPRKGEELLEEWTPEKVKCPPIGMESHRIEDNQIRASSMLRHGLGAQRGLNMQ
 TGATEDDYDGAWCAEDDARTQWIEVDTRRTRFTGVITQGRDSSIHDDFVTTFFVGFSDNSQTVWVMTN
 GYEEMTFHGNVDKTPVLSPEPVVARFIRIYPLTWNGSLCMRLEVLGCSVAPVYSYAAQNEVVATDDL
 DFRHHSYKDMRQLMKVVNEECPTITRYSYLGKSSRGLKIYAMEISDNPGHEHELGEPEFRYTAGIHGNEVL
 GRELLLLLMQYLCREYRDGNPRVRSVQDTRIHLVPSLNDPGYEVAAQMGSEFGNVALGLWTEEGFDIFE
 DFPDLNSVLWGAERKWPYRVPNNLPIPERYLSPDATVSTEVRAIIAWMEKNPFVLGANLNGGERLVS
 YPYDMARTPTQEQLLAAMAAARGEDEVESEAQETPDHAIFRWLAISFASAHLTLTEPYRGGCQAQDYT
 GGMGIVNGAKWNPRTGTINDFSYLHTNCLLSFYLGCDKFPHESELPREWENKEALLTFMEQVHRGKIG
 VVTDEQGIPIANATISVSGINHGVKTASGGDYWRILNPGEYRVTAAHAEGYTPSAKTCNVDDYDIGATQCNF
 ILARSNWKRIREIMAMNGNRPPIPHIDPSRPMTPQQRRLQQRRLQHLRLRAQMRLRRLNATTTLGPHTVP
 PTLPPAPATTLSTTIEPWGLIPPTTAGWEESETETYTEVVTEFGTEVEPEFGTKVEPEFETQLEPEFETQ
 LEPEEEEEEEEEEEIATGQAFPTTVETVTVNFQDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

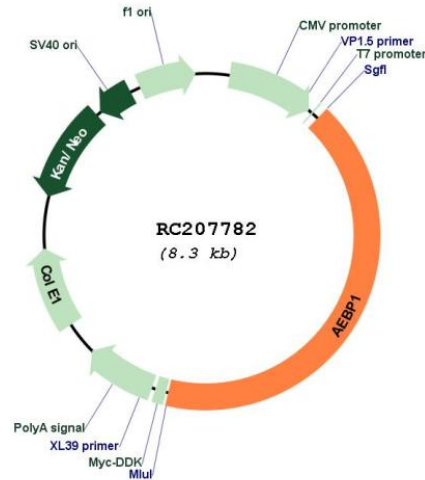
Chromatograms: https://cdn.origene.com/chromatograms/ja1781_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001129

ORF Size: 3474 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 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](#)

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_001129.5](#)

RefSeq Size: 4125 bp

RefSeq ORF: 3477 bp

Locus ID: 165

UniProt ID: [Q8IUX7](#)

Cytogenetics: 7p13

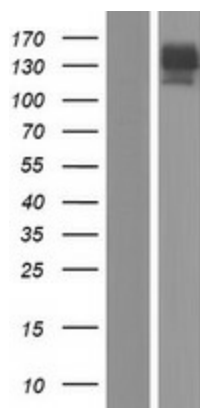
Domains: F5_F8_type_C, Zn_carbOpept

Protein Families: Druggable Genome, Protease, Transcription Factors

MW: 130.93 kDa

Gene Summary: 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]

Product images:



Western blot validation of overexpression lysate (Cat# [LY420114]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207782 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).