

## Product datasheet for **RN204173**

### App (NM\_019288) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	App (NM_019288) Rat Untagged Clone
Tag:	Tag Free
Symbol:	App
Synonyms:	Abeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN204173 representing NM\_019288  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGCCAGCCTGGCACTGCTCTGCTGGCCGCTGGACGGTTCGGGCTCTGGAGGTGCCACTGATG  
 GCAATGCCGGTCTGCTGGCAGAACCCAGATCGCCATGTTCTGTGGTAACTCAACATGCACATGAATGT  
 GCAGAATGGAAAATGGGAGTCAGACCCATCAGGGACAAAACCTGCATTGGCACCAAGGAGGGAATCCTG  
 CAGTACTGCCAAGAGGTCTACCCTGAACTGCAGATCACAAACGTGGTGGAAAGCCAACCAGCCAGTGACCA  
 TCCAGAACTGGTGAAGCGGGGCCGAAGCAGTGAAGACGCACACCCACATCGTGATTCCTTACCGGTG  
 CCTAGTTGGTGGTGGTAAAGCGATGCCCTTCTCGTGCCCGACAAGTGAAGTTTCTACACCAGGAGCGG  
 ATGGACGTTTGTGAGACCCATCTTCACTGGCATACTGTTGCCAAAGAGACATGCAGTGAAGAGACTA  
 ACTTGCACGACTATGGCATGCTGCTGCCCTGTGGCATCGACAAGTTCGAGGGGTGAGTTCGTGTGCTG  
 CCCGTTGGCGGAGGAGAGCGACAGCATCGATTCTGCGGACGCAGAGGAGGACGACTCCGATGTCTGGTGG  
 GGTGGAGCGGACACAGACTATGCTGATGGCGGTGAAGACAAAGTCGTAGAAGTAGCCGAAGAGGAGGAAG  
 TGGCCGATGTTGAGGAAGAAGAAGCTGAGGATGACGAGGATGTGGAGGATGGGGATGAGGTGGAGGAGGA  
 GGCCGAGGAGCCCTACGAAGAGGCCACAGAGAGAACAACCAGCATTGCCACCACTACCACAACCTACCACT  
 GAGTCTGTGGAGGAGGTAGTCCGAGAGGTGTGCTCTGAACAAGCTGAGACCGGGCCATGCCGTGCAATGA  
 TCTCCCGTGGTACTTTGATGTCACCTGAAGGAAAGTGCGCCCATTTCTTTACGGCGGATGTGGCGGCA  
 CAGGAACAACCTTTGACTGAAGAGTACTGCATGGCGGTGTGTGGCAGCGTGTATCCCAAAGTTTACTC  
 AAGACTACCAGTGAACCTCTTCCCAAGATCCGGTTAACTTCCCACGACGGCAGCCAGCACCCCTGACG  
 CAGTCGACAAGTACCTGGAGACCCCGGAGATGAGAACGAGCAGCCCATTTCCAGAAAGCCAAAGAGAG  
 GTTGAAGCCAAAGCACCAGAGAGAAATGTCCAGGTCATGAGAGAATGGGAGGAGGACAGAACGTCGAAGCC  
 AAGAATTTGCCAAAGCTGACAAGAAGGCCGTTATCCAGCATTTCAGGAGAAAGTGAATCTCTGGAAC  
 AGGAAGCAGCCAACGAGAGGCGAGCAGCTGTAGAGACACACATGGCCAGAGTTGAAGCCATGCTCAATGA  
 TCGCCGTCGCTGCCCTCGAGAATTACATCACCGCACTGCAGGCGGTGCCTCCAAGGCCTCATCATGTG  
 TTCAACATGCTGAAGAAGTACGTCCGTGCAGAGCAGAAGGACAGACAGCACACCCAAAGCATTGTAAC  
 ATGTGCGCATGGTGGACCCCAAGAAAGTGTCTCAGATCCGGTCCCAGGTTATGACACACCTCCGTGTGAT  
 CTACGAGCGCATGAACAGTCTCTGTCCCTGCTCTACAACGTCCCTGCCGTGGCTGAGGAGATTCAAGAT  
 GAAGTTGACGAGCTGCTTCAAGAGGAGCAGAAGTACTCCGACGAGTCTTAGCCAACATGATCAGTGAAC  
 CCAGAATCAGTTACGGCAACGATGCTCTCATGCCTTCTTTGACTGAAACGAAGACCACTGTGGAGCTCCT  
 TCCCGTGAATGGCGAATTCAGCCTGGATGATCTCCAACCGTGGCATCCTTTTGGGGTGGACTCTGTGCCA  
 GCCAATACAGAAAATGAAGTTGAGCCTGTGACGCGCCCGCCCGCTGCTGACCGAGGACTGACCACTCGAC  
 CAGGGTCTGGGTTGACAAACATCAAGACAGAAGAGATCTCAGAAGTGAAGATGGATGCGGAGTTCGGACA  
 TGATTACGGCTTCGAAGTCCGCCATCAAAAACCTGGTGTCTTTGACAGAAGATGTGGGTTCAAACAAGGT  
 GCCATCATTGGACTCATGGTGGGTGGCGTTGTATAGCAACAGTATTGTCATCACCTTGGTGATGCTGA  
 AGAAGAAACAGTACACATCCATCCATCATGGCGTGGTGGAGTTGACGCTGCTGTGACCCCGGAGGAGCG  
 CCACCTCTCCAAGATGCAGCAGAATGGATATGAGAATCCAACATACAAGTTCTTTGAGCAGATGCAGAAC  
**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1593\\_a07.zip](https://cdn.origene.com/chromatograms/ja1593_a07.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_019288

**Insert Size:** 2313 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\\_019288.1](#), [NP\\_062161.1](#)

**RefSeq Size:** 2340 bp

**RefSeq ORF:** 2313 bp

**Locus ID:** 54226

**UniProt ID:** [P08592](#)

**Cytogenetics:** 11q11

**Gene Summary:** activates voltage dependent calcium channels; may induce neuronal apoptosis [RGD, Feb 2006]