

Product datasheet for **RC226994**

Amyloid Precursor Protein (APP) (NM_001136131) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amyloid Precursor Protein (APP) (NM_001136131) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amyloid Precursor Protein
Synonyms:	AAA; ABETA; ABPP; AD1; alpha-sAPP; APPI; CTFgamma; CVAP; PN-II; PN2; preA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC226994 representing NM_001136131
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTCTGTGGCAGACTGAACATGCACATGAATGTCCAGAATGGGAAGTGGGATTCAGATCCATCAGGGA
CCAAAACCTGCATTGATACCAAGGAAGGCATCCTGCAGTATTGCCAAGAAGTCTACCCTGAACTGCAGAT
CACCAATGTGGTAGAAGCCAACCAACCAGTGACCATCCAGAAGTGGTGCAGCGGGCCGCAAGCAGTGC
AAGACCCATCCCCACTTTGTGATTCCCTACCGCTGCTTAGTTGGTGAAGTTGTAAGTGTGCCCTTCTCG
TTCCTGACAAGTGCAAATTTTACACCAGGAGAGGATGGATGTTTGCAGAACTCATCTTCACTGGCACAC
CGTCGCCAAAGAGACATGCAGTGAGAAGAGTACCAACTTGCATGACTACGGCATGTTGCTGCCCTGCGGA
ATTGACAAAGTCCGAGGGGTAGAGTTTGTGTGTTGCCACTGGCTGAAGAAAGTACAATGTGGATTCTG
CTGATGCGGAGGAGGATGACTCGGATGTCTGGTGGGCGGAGCAGACACAGACTATGCAGATGGGAGTGA
AGACAAAGTAGTAGAAGTAGCAGAGGAGGAAGAAGTGGCTGAGGTGGAAGAAGAAGCCGATGATGAC
GAGGACGATGAGGATGGTGTAGAGTAGAGGAAGAGGCTGAGGAACCTACGAAGAAGCCACAGAGAGAA
CCACCAGCATTGCCACCACCACCACCACCACAGAGTCTGTGGAAGAGGTGGTTCGAGTTCCTACAAC
AGCAGCCAGTACCCTGATGCCGTTGACAAGTATCTCGAGACACCTGGGGATGAGAATGAACATGCCCAT
TTCCAGAAAGCCAAGAGAGGCTTGAGGCCAAGCACCGAGAGAGAATGTCCCAGGTGATGAGAGAATGGG
AAGAGGCAGAACGTCAAGCAAAGAACTTGCCATAAAGCTGATAAGAAGGCAGTTATCCAGCATTTCAGGA
GAAAGTGAATCTTTGGAACAGGAAGCAGCCAACGAGAGACAGCAGCTGGTGGAGACACACATGGCCAGA
GTGGAAGCCATGCTCAATGACCGCCGCCCTGGCCCTGGAGAACTACATCACCGCTCTGCAGGCTGTTT
CTCCTCGGCCTCGTCACGTGTTCAATATGCTAAAGAAGTATGTCCGCGCAGAACAAGAAGGACAGACAGCA
CACCTAAAGCATTTTCGAGCATGTGCGCATGGTGGATCCCAAGAAAGCCGCTCAGATCCGGTCCCAGGTT
ATGACACACCTCCGTGTGATTTATGAGCGCATGAATCAGTCTCTCTCCCTGCTCTACAACGTGCCTGCAG
TGGCCGAGGAGATTAGGATGAAGTTGATGAGCTGCTTCAGAAAGAGCAAACTATTCAGATGACGTCTT
GGCCAACATGATTAGTGAACCAAGGATCAGTTACGGAAACGATGCTCTCATGCCATCTTTGACCGAAACG
AAAACCACCGTGGAGCTCCTTCCCGTGAATGGAGAGTTCAGCCTGGACGATCTCCAGCCGTGGCATTCTT
TTGGGGCTGACTCTGTGCCAGCCAACACAGAAAACGAAGTTGAGCCTGTTGATGCCCGCCCTGCTGCCGA
CCGAGGACTGACCACTCGACCAGGTTCTGGGTTGACAAAATCAAGACGGAGGAGATCTCTGAAGTGAAG
ATGGATGCAGAATTCCGACATGACTCAGGATATGAAGTTCATCATCAAAAATTGGTGTCTTTGCAGAAG
ATGTGGGTTCAAACAAAGGTGCAATCATTGGACTCATGGTGGGCGGTGTTGTATAGCGACAGTATCGT
CATCACCTTGGTGTGCTGAAGAAGAAACAGTACACATCCATTATCATGGTGTGGTGGAGTTGACGCC
GCTGTACCCAGAGGAGCGCCACCTGTCCAAGATGCAGCAGAACGGCTACGAAAATCCAACCTACAAGT
TCTTTGAGCAGATGCAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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_001136131.2](#)

RefSeq ORF: 1983 bp

Locus ID: 351

UniProt ID: [P05067](#)

Cytogenetics: 21q21.3

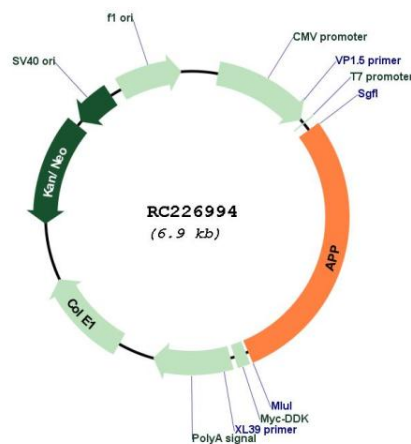
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Alzheimer's disease

MW: 74.9 kDa

Gene Summary: This gene encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote transcriptional activation, while others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. In addition, two of the peptides are antimicrobial peptides, having been shown to have bacteriocidal and antifungal activities. Mutations in this gene have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy). Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Aug 2014]

Product images:



Circular map for RC226994