

Product datasheet for **RC234830**

Amyloid Precursor Protein (APP) (NM_001204301) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Amyloid Precursor Protein (APP) (NM_001204301) 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) |



[View online »](#)

ORF Nucleotide Sequence:

>RC234830 representing NM_001204301
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCGGTTTGGCACTGCTCCTGCTGGCCGCTGGACGGCTCGGGCGCTGGAGGTACCCACTGATG
 GTAATGCTGGCCCTGCTGGCTGAACCCAGATTGCCATGTTCTGTGGCAGACTGAACATGCACATGAATGT
 CCAGAATGGGAAGTGGGATTCCAGATCCATCAGGGACAAAACCTGCATTGATACCAAGGAAGGCATCCTG
 CAGTATTGCCAAGAAGTCTACCCTGAACTGCAGATCACCAATGTGGTAGAAGCCAACCAACCAAGTACCA
 TCCAGAAGTGGTCAAGCGGGCCGCAAGCAGTGAAGACCCATCCCCTTTGTGATTCCCTACCCTG
 CTTAGTTGGTGGTGGTAAAGTATGCTTCTCGTTCCTGACAAGTGCAAACTTTACACCAGGAGAGG
 ATGGATGTTTGCAAAATCATCTTCACTGGCACACCGTCGCCAAAGAGACATGCAGTGAGAAGGTACCA
 ACTTGCATGACTACGGCATGTTGCTGCCCTGCGGAATTGACAAGTCCGAGGGGTAGAGTTTGTGTGTTG
 CCCACTGGCTGAAGAAAGTGACAATGTGGATTCTGCTGATGCGGAGGAGGATGACTCGGATGTCTGGTGG
 GCGGAGCAGACACAGACTATGCAGATGGGAGTGAAGACAAAGTAGTAGAAGTAGCAGAGGAGGAAGAAG
 TGCTGAGGTGGAAGAAGAAGACCGATGATGACGAGGACGATGAGGATGGTGTGAGGTAGAGGAAGA
 GGCTGAGGAACCTACGAAGAAGCCACAGAGAGAACACCAGCATTGCCACCACCACCACCACCACACA
 GAGTCTGTGGAAGAGGTGGTTCGAGAGGTGTGCTCTGAACAAGCCGAGACGGGGCCGTGCCGAGCAATGA
 TCTCCCGTGGTACTTTGATGTGACTGAAGGGAAGTGTGCCCCATTTTACGGCGGATGTGGCGGCAA
 CCGGAACAACCTTTGACACAGAAGTACTGCATGGCCGTGTGTGGCAGGCCATGTCCCAAAGTTTACTC
 AAGACTACCCAGGAACCTTTGCCCGAGATCCTGTTAACTTCTACAACAGCAGCCAGTACCCCTGATG
 CCGTTGACAAGTATCTCGAGACACCTGGGGATGAGAATGAACATGCCCATTTCCAGAAAGCCAAAGAGAG
 GCTTGAGGCCAAGCACCGAGAGAGAATGTCCAGGTCATGAGAGAATGGGAAGAGGCAGAACGTCGAAGCA
 AAGAAGTTGCCTAAAGCTGATAAGAAGGCAATTATCCAGATTTCCAGGAGAAAGTGAATCTTTGGAAC
 AGGAAGCAGCCAACGAGAGACAGCAGCTGGTGGAGACACACATGGCCAGAGTGAAGCCATGCTCAATGA
 CCGCCCGCCTGGCCCTGGAGAATACATCACCGCTCTGCAGGCTGTTCTCCTCGGCCTCGTCACGCTG
 TTCAATATGCTAAAGAAGTATGTCGCGCAGAACAGAAGGACAGACAGCACACCCTAAAGCATTTCGAGC
 ATGTGCGCATGGTGGATCCCAAGAAAGCCGCTCAGATCCGGTCCCAGGTTATGACACACCTCCGTGTGAT
 TTATGAGCGCATGAATCAGTCTCTCCTGCTCTACAACGTGCCTGCAGTGGCCGAGGAGATTCAGGAT
 GAAGTTGATGAGCTGCTCAGAAAGAGCAAACTATTCAGATGACGTCTTGCCCAACATGATTAGTGAAC
 CAAGGATCAGTTACGGAAACGATGCTCTCATGCCATCTTTGACCGAAACGAAAACCACCGTGGAGCTCCT
 TCCCGTGAATGGAGAGTTCAGCCTGGACGATCTCCAGCCGTGGCATTCTTTGGGGCTGACTCTGTGCCA
 GCCAACACAGAAAACGAAGTCTGGGTTGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAGATGG
 ATGCAGAAATCCGACATGACTCAGGATATGAAGTTCATCATCAAAAATGGTGTCTTTGCAGAAGATGT
 GGGTTCAAACAAAGGTGCAATCATTGGACTCATGGTGGGCGGTGTGTATAGCGACAGTGCATC
 ACCTTGGTGTGCTGAAGAAGAAACAGTACACATCCATTATCATGGTGTGGTGGAGGTTGACGCCGCTG
 TCACCCAGAGGAGCCACCTGTCCAAGATGCAGCAGAACGGCTACGAAAATCCAACCTACAAGTCTT
 TGAGCAGATGCAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234830 representing NM_001204301
Red=Cloning site Green=Tags(s)

MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGRLNMHMNVQNGKWDSDPSGKTKCIDTKEGIL
 QYCQEVPELQITNVVEANQPVTIQNWCKRGRKQCKTHPHFVIPYRCLVGEFVSDALLVPDKCKFLHQR
 MDVCETHLHWHTVAKETCSEKSTNLHDYGMLLPCGIDKFRGVEFVCCPLAEESDNVDSADAEDSDVWW
 GGADTDYADGSEDKVVEVAEEEEVAEEEEADDEDEDEGDEVEEEAEEPYEEATERTTTSIATTTTTTT
 ESVEEVVREVCSEQAETGPCRAMISRWFYFDVTEGKCAPFFYGGCGNRNFDTEEYCMVCGSAMSQSLL
 KTTQEPLARDPVKLPPTAASTPDAVDKYLETPGDENEHAFQKAKERLEAKHRERMSQVMREWEAEERQA
 KNLPKADKKAVIQHFQEKVESLEQEAANERQQLVETHMARVEAMLNDRRLALENYITALQAVPPRPRHV
 FNMLKKYVRAEQKDRQHTLKHFEHVRMVDPKAAQIRSQVMTHLRVIYERMNQSLSLYNVPAVAEEIQD
 EVDELLQKEQNYSDVLANMISEPRI SYGNDALMPSLTETKTTVELLPVNGEFLDDLQPWHSFGADSV
 ANTENEGSGLTNIKTEEISEVKMDAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIATVIVI
 TLVMLKKKQYTSIHGGVVEVDAAVTPEERHLSKMQQNGYENPTYKFFEQMQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001204301

ORF Size: 2256 bp

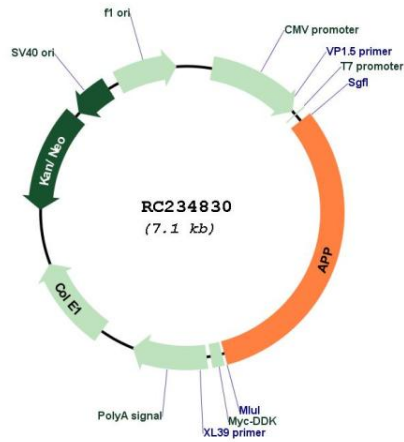
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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).

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| 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: | NM_001204301.2 |
| RefSeq Size: | 3594 bp |
| RefSeq ORF: | 2259 bp |
| Locus ID: | 351 |
| UniProt ID: | P05067 |
| Cytogenetics: | 21q21.3 |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Alzheimer's disease |
| MW: | 85.5 kDa |
| Gene Summary: | <p>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]</p> |

Product images:



Circular map for RC234830