

## Product datasheet for **SC326199**

### Amyloid Precursor Protein (APP) (NM\_001136130) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Amyloid Precursor Protein (APP) (NM_001136130) Human Untagged Clone
Tag:	Tag Free
Symbol:	APP
Synonyms:	AAA; ABETA; ABPP; AD1; alpha-sAPP; APPI; CTFgamma; CVAP; PN-II; PN2; preA4
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001136130, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCCCGTTTGGCACTGCTCCTGCTGGCCGCTGGACGGCTCGGGCGCTGGAGGTC
TACCCTGAACTGCAGATCACCAATGTGGTAGAAGCCAACCAACCAGTGACCATCCAGAAC
TGGTGCAAGCGGGGCCGAAGCAGTGCAAGACCCATCCCCACTTTGTGATTCCCTACCGC
TGCTTAGTTGGTGAGTTTGAAGTGATGCCCTTCTCGTTCTGACAAGTGCAAATTTTA
CACCAGGAGAGGATGGATGTTTGGCAAATCATCTTCACTGGCACACCGTCGCCAAAGAG
ACATGCAGTGAGAAGAGTACCAACTTGCATGACTACGGCATGTTGCTGCCCTGCGGAATT
GACAAGTTCCGAGGGGTAGAGTTTGTGTGTGGCCACTGGCTGAAGAAAGTGACAATGTG
GATTCTGCTGATGCGGAGGAGGATGACTCGGATGTCTGGTGGGGCGGAGCAGACACAGAC
TATGCAGATGGGAGTGAAGACAAAGTAGTAGAAGTAGCAGAGGAGGAAGAAGTGGCTGAG
GTGGAAGAAGAAGAAGCCGATGATGACGAGGACGATGAGGATGGTATGAGGTAGAGGAA
GAGGCTGAGGAACCTACGAAGAAGCCACAGAGAGAACCACCAGCATTGCCACCACCACC
ACCACCACCACAGAGTCTGTGGAAGAGGTGGTTCGAGAGGTGTGCTCTGAACAAGCCGAG
ACGGGGCCGTGCCGAGCAATGATCTCCCGCTGGTACTTTGATGTGACTGAAGGAAAGTGT
GCCCATTTCTTTACGGCGGATGTGGCGCAACCGGAACAACCTTTGACACAGAAGAGTAC
TGATGGCCGTGTGTGGCAGCGCATGTCCCAAAGTTTACTCAAGACTACCCAGGAACCT
CTTGCCCGAGATCCTGTTAAACTTCTACAACAGCAGCCAGTACCCTGATGCCGTTGAC
AAGTATCTCGAGACACCTGGGGATGAGAATGAACATGCCATTTCCAGAAAGCCAAAGAG
AGGCTTGAAGCCAAAGCACCGAGAGAGAATGTCCAGGTATGAGAGAATGGGAAGAGGCA
GAACGTCAAGCAAAGAATTGCCTAAAGCTGATAAGAAGGCAGTTATCCAGCATTTCAG
GAGAAAAGTGGAATCTTTGGAACAGGAAGCAGCCAAACGAGAGACAGCAGCTGGTGGAGACA
CACATGGCCAGAGTGGAAGCCATGCTCAATGACCGCCCGCCCTGGCCCTGGAGAATAC
ATCACCGCTCTGCAGGCTGTTCCCTCGGCCTGTGACGTGTTCAATATGCTAAAGAAG
TATGTCCGCGCAGAACAGAAGGACAGACAGCACACCCTAAAGCATTTCGAGCATGTGCGC
ATGGTGGATCCCAAGAAAGCCGCTCAGATCCGGTCCCAGGTTATGACACACCTCCGTGTG
ATTTATGAGCGCATGAATCAGTCTCTCTCCCTGCTCTACAACGTGCCAGTGGCCGAG
GAGATTCAGGATGAAGTTGATGAGCTGCTTCAAGAAAGCAAACTATTGATGACGTC
TTGGCCAAACATGATTAGTGAACCAAGGATCAGTTACGGAAACGATGCTCTCATGCCATCT
TTGACCGAAACGAAAACCACCGTGGAGCTCCTTCCCGTGAATGGAGAGTTCAGCCTGGAC
GATCTCCAGCCGTGGCATTCTTTGGGGCTGACTCTGTGCCAGCCAACACAGAAAACGAA
GTTGAGCCTGTTGATGCCCGCCCTGCTGCCGACCGAGGACTGACCACTCGACCAGTTCT
GGTTGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAGATGGATGCAGAATCCGA
CATGACTCAGGATATGAAGTTCATCATAAAAATTGGTGTCTTTGCAGAAGATGTGGGT
TCAAACAAAGGTGCAATCATTGGACTCATGGTGGGCGGTGTTGTCATAGCGACAGTGATC
GTCATCACCTTGGTGATGCTGAAGAAGAAACAGTACACATCCATTATCATGGTGTGGTG
GAGGTTGACGCCGCTGTACCCCAAGAGGAGCGCCACCTGTCCAAGATGCAGCAGAACGGC
TACGAAAATCCAACCTACAAGTTCTTTGAGCAGATGCAGAAC
    
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**Restriction Sites:** Please inquire

**ACCN:** NM\_001136130

**Insert Size:** 3480 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001136130.1</a></u> , <u><a href="#">NP_001129602.1</a></u>
<b>RefSeq Size:</b>	3480 bp
<b>RefSeq ORF:</b>	3480 bp
<b>Locus ID:</b>	351
<b>UniProt ID:</b>	<u><a href="#">P05067</a></u>
<b>Cytogenetics:</b>	21q21.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Alzheimer's disease
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (6) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (f) has the same N- and C-termini but is shorter compared to isoform a.</p>