

Product datasheet for **SC126161**

APLP2 (BC004371) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APLP2 (BC004371) Human Untagged Clone
Tag:	Tag Free
Symbol:	APLP2
Synonyms:	amyloid beta (A4) precursor-like protein 2; amyloid precursor protein homolog HSD-2; APPH; APPL2; CDEBP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for BC004371 edited
 GCTAAGCGAGGAGTCTGAGTGTGTGAGCTTGAGAGCCGCGCGCTAGAGCGACCCGGCGAG
 GGATGGCGGCCACCGGGACCGCGCCGCGCAGCCACGGGCAGGCTCCTGCTTCTGCTGC
 TGGTGGGGCTCACGGCGCTGCCTTGGCGCTGGCCGGCTACATCGAGGCTCTTGCAGCCA
 ATGCCGGAACAGGATTTGCTGTTGCTGAGCCTCAAATCGCAATGTTTTGTGGGAAGTTAA
 ATATGCATGTGAACATTCAGACTGGGAAATGGGAACCTGATCCAACAGGCACCAAGAGCT
 GCTTTGAAACAAAAGAAGAAGTTCTTCAGTACTGTCAGGAGATGTATCCAGAGCTACAGA
 TCACAAATGTGATGGAGGCAAACCCAGCGGTTAGTATTGACAACCTGGTGCCGGAGGGACA
 AAAAGCAATGCAAGAGTCGCTTTGTTACACCTTTCAAGTGTCTCGTTCCTCCAACCTCTC
 TGCCAACCAATGATGTTGATGTGATTTTCGAGACCTCTGCAGATGATAATGAGCATGCTC
 GCTTCCAGAAGGCTAAGGAGCAGCTGGAGATTCGGCACCGCAACCGAATGGACAGGGTAA
 AGAAGGAATGGGAAGAGGCAGAGCTTCAAGCTAAGAACCTCCCAAGCAGAGAGGCAGA
 CTCTGATTCAGCACTTCCAAGCCATGGTTAAAGCTTTAGAGAAGGAAGCAGCCAGTGAGA
 AGCAGCAGCTGGTGGAGACCCACCTGGCCCGAGTGAAGCTATGCTGAATGACCGCCGTC
 GGATGGCTCTGGAGAACTACCTGGCTGCCTTGCAGTCTGACCCGCCACGGCTCATCGCA
 TTCTCCAGGCCTTACGGGTTATGTCCGTGCTGAGAACAAGATCGCTTACATACCATCC
 GTCATTACCAGCACGTGTTGGCTGTTGACCCAGAAAAGGCGGCCAGATGAAATCCCAGG
 TGATGACACATCTCCACGTGATTGAAGAAAAGGAGGAACCAACCTCTCTGCTCTACA
 AAGTACCTTATGTAGCCCAAGAAATTCAGAGGAAATGATGAGCTCCTTCAGGAGCAGC
 GTGCAGATATGGACCAGTTCAGTGCCTCAATCTCAGAGACCCCTGTGGACGTCCGGGTGA
 GCTCTGAGGAGAGTGAGGAGATCCCACCGTTCCACCCCTCCACCCCTCCAGCCCTAC
 CTGAGAACGAAGGATCTGGAGTGGGAGAGCAGGATGGGGACTGATCGGTGCCGAAGAGA
 AAGTGATTAACAGTAAGAATAAAGTGGATGAAAACATGGTCAATTGACGAGACTCTGGATG
 TTAAGGAAATGATTTTCAATGCCGAGAGAGTTGGAGGCCCTGAGGAAGAGCGGGAATCCG
 TGGGCCCACTGCCGGAGGACTTCACTGAGTAGCAGTGTCTCATTGGCCTGCTGGTCA
 TCGCAGTGGCCATTGCCACGGTCATCGTCATCAGCCTGGTGTGCTGAGGAAGAGGCAGT
 ATGGCACCATCAGCCACGGGATCGTGGAGGTTGATCCAATGCTCACCCCAAGAGCGTC
 ACCTGAACAAGATGCAGAACCATGGCTATGAGAACCCACCTACAATACTGGAGCAGA
 TGCAGATTTAGGTGGCAGGGAGCGCGCAGCCCTGGCGGAGGGATGCAGGTGGGCCGGAA
 GATCCCACGATCCGATCGACTGCAAGCAGCAGCCGCTGCCAGGGGCTGCGTCTGACAT
 CCTGACCTCCTGGACTGTAGGACTATATAAAGTACTACTGTAGAAGTCAATTTCCATTC
 TTTTAAATGGGTGAAAAATGGTAATATAACAATATATGATATATAAAAAAAAAAAAAAAAA
 AA

5' Read Nucleotide Sequence: >OriGene 5' read for BC004371 unedited
 GTTCAGATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGCTAAGCGAG
 GAGTCTGAGTGTGTGAGCTTGAGAGCCGCGCGCTAGAGCGACCCGGCGAGGGATGGCGGC
 CACCGGGACCGCGCCGCGCAGCCACGGGCAGGCTCCTGCTTCTGCTGCTGGTGGGGCT
 CACGGCGCTGCCTTGGCGCTGGCCGGCTACATCGAGGCTCTTGCAGCCAATGCCGGAAC
 AGGATTTGCTGTTGCTGAGCCTCAAATCGCAATGTTTTGTGGGAAGTTAAATATGCATGT
 GAACATTCAGACTGGGAAATGGGAACCTGATCCAACAGGCACCAAGAGCTGCTTTGAAAC
 AAAAGAAGAAGTTCTTCAGTACTGTCAGGAGATGTATCCAGAGCTACAGATCACAAATGT
 GATGGAGGCAAACCCAGCGGTTAGTATTGACAACCTGGTGCCGGAGGGACAAAAAGCAATG
 CAAGAGTCGCTTTGTTACACCTTTCAAGTGTCTCGTTCCTCCAACCTCTGCCAACCAA
 TGATGTTGATGTGATTTTCGAGACCTCTGCAGATGATAATGAGCATGCTCGTTCAGAA
 GGCTAAGGAGCAGCTGGAGATTCGGCACCGCAACCGAATGGACAGGGTAAAGAAGGAATG
 GGAAGAGGCAGAGCTTCAAGCTAAGAACCTCCCAAGCAGAGAGGCAGACTCTGATTCAG
 CACTTCCAAGCCATGGTTAAAGCTTTAGAGAAGGAAGCAGCCAGTGAGAAGCAGCAGCTG
 GTGGAGACCCANCTGGCCCGAGTGAAGCTATGCTGAATGACCCCGCTCGATGGCTCTG
 GAGAACTACCTGGCTGCCNTTGCAGTCTGACCGCCACGGCTCATCGCATTCTNNCAGCC
 TTNACNGCGTAATGTCCGTGCTGAGAACAAGATCGCTTACTTACATTTCGTA

Restriction Sites: Please inquire

ACCN:	BC004371
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).
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:	<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:	<u>BC004371.1</u> , <u>AAH04371.1</u>
RefSeq Size:	1862 bp
RefSeq ORF:	1566 bp
Locus ID:	334
Cytogenetics:	11q24.3
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes amyloid precursor- like protein 2 (APLP2), which is a member of the APP (amyloid precursor protein) family including APP, APLP1 and APLP2. This protein is ubiquitously expressed. It contains heparin-, copper- and zinc- binding domains at the N-terminus, BPTI/Kunitz inhibitor and E2 domains in the middle region, and transmembrane and intracellular domains at the C-terminus. This protein interacts with major histocompatibility complex (MHC) class I molecules. The synergy of this protein and the APP is required to mediate neuromuscular transmission, spatial learning and synaptic plasticity. This protein has been implicated in the pathogenesis of Alzheimer's disease. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]