

Product datasheet for **SC116888**

APLP1 (NM_005166) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APLP1 (NM_005166) Human Untagged Clone
Tag:	Tag Free
Symbol:	APLP1
Synonyms:	APLP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116888 sequence for NM_005166 edited (data generated by NextGen Sequencing)

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ATGGGGCCCGCCAGCCCCGCTGCTCGCGGTCTAAGTCGCCGCCCGGGCCAGCCGCCGCTG
CCGCTGCTGCTGCCACTATTGCTGCTGCTTCTGCGCGCGCAGCCCCGCATCGGGAGCCTG
GCCGGTGGGAGCCCCGCGCGGCCGAGGCCCGGGGTGCGCCAGGTGGCTGGACTATGC
GGGCGCCTAACCTTTCACCGGGACCTGCGCACCAGCCGCTGGGAACCAGACCCACAGCCG
TCTCGACGCTGTCTCCGGGACCCGACGCGCTGCTGGAGTACTGCAGACAGATGTACCCG
GAGGTGCAGATTGCACGTGTGGAGCAGGCTACGCAGGCCATCCCCATGGAGCGCTGGTGC
GGGGTTCCCGGAGCGGAGCTGCGCCACCCACCACAGTTGTGCCCTTCCGCTGC
CTGCTGGTGAATTTGTGAGTGAGGCCCTGCTGGTGCCTGAAGGCTGCCGTTCTTGAC
CAGGAGCGCATGGACCAATGTGAGAGTTCAACCCGGAGGCATCAGGAGGCACAGGAGCC
TGCAGCTCCAGGGCCTCATCTGCACGGCTCGGGCATGCTCTTACCCTGTGGCTCGGAT
CGGTTCCGTGGTGTGGAGTATGTGTGCTGTCCCTCCAGGGACCCCGACCCATCTGGG
ACAGCAGTTGGTACCCCTCCACCCGGTCTGGCCCCGGGAGCAGAGTAGAGGGGGCT
GAGGACGAGGAAGAGGAGGAATCTTCCACAGCCAGTAGATGATTACTTCGTGGAGCCT
CCGCAGGCTGAAGAGGAAGAGGAAACGGTCCCACCCCAAGCTCCCATACTTGCAGTG
GTCGGCAAAGTCACTCCACCCCGAGGCCACAGACGGTGTGGATATTTACTTTGGCATG
CCTGGGAAATCAGTGAGCACGAGGGGTTCTGAGGGCCAAGATGGACCTGGAGGAGCGT
AGGATGCGCCAGATTAATGAGGTGATGCGTGAATGGGCCATGGCAGACAACCAAGTCCAAG
AACCTGCCTAAAGCCGACAGACAGGCCCTGAATGAGCACTTCCAGTCCATTCTGCAGACT
CTGGAGGAGCAGGTGTCTGGTGAAGCAGCGCCTGGTGGAAACCCACGCCACCCCGCTC
ATCGCCCTTATCAACGACCAGCGCCGGGCTGCCTTGGAGGGCTTCTGGCAGCCCTGCAG
GCAGATCCGCCTCAGGCGGAGCGTGTCTTGGCCCTGCGGCGCTACCTGCGTGCGGAG
CAGAAGGAACAGAGGCACACGCTGCGCCACTACCAGCATGTGGCCCGCTGGATCCCGAG
AAGGCACAGCAGATGCGCTTCCAGGTGCATACCCACCTTCAAGTATTGAGGAGAGGGTG
AATCAGAGCCTGGGCTGCTTGACCAGAACCCACCTGGCTCAGGAGCTGCGGCCCAA
ATCCAGGAACTCCTCCACTCTGAACACCTGGGTCCAGTGAATTGGAAGCCCTGCCCT
GGGGGACGAGCAGGACAAGGGTGGGCTGCAGCCTCCAGATTCCAAGGATGACACCCC
ATGACCCTTCCAAAAGGGTCCACAGAACAAGATGCTGCATCCCCTGAGAAAGAGAAGATG
AACCCGCTGGAACAGTATGAGCGAAAGGTGAATGCGTCTGTTCCAAGGGTTTCCCTTTC
CACTCATCGGAGATTAGAGGGATGAGCTGGCACCAGCTGGGACAGGGGTGTCCCGTGA
GCTGTGTGCGGTCTGCTGATCATGGGAGCGGGCGGAGGCTCCCTCATCGTCTCTCCATG
CTGCTCTGCGCAGGAAGAAGCCCTACGGGGCTATCAGCCATGGCGTGGTGGAGGTGGAC
CCCATGCTGACCCTGGAGGAGCAGCAGCTCCGCGAACTGCAGCGGCACGGCTATGAGAAC
CCCACTTACCCTTCTGGAGGAACGACCTGA
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Clone variation with respect to NM_005166.3

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005166 unedited</p> <pre>CCGCACTTCTATAGGCGGCCGCGCAATTCGCACGAGGCATGGGGCCCGCCAGCCCCGCTG CTCGCGGTCTAAGGGGGCGCCGGGCCAGCCGCGCTGCCGCTGCTGCCACTATTGC TGCTGCTTCTGCGCGCGCAGCCGCCATCGGGAGCCTGGCCGGTGGGAGCCCCGGCGCG CCGAGGCCCGGGGTGCGCCAGGTGGCTGGACTATGCGGGCGCCTAACCCCTTACCAGG ACCTGCGCACCGGCCGCTGGGAACCAGACCCACAGCGCTCTCGACGCTGTCTCCGGGACC CGCAGCGCTGCTGGAGTACTGCAGACAGATGTACCCGGAGCTGCAGATTGCACGTGTGG AGCAGGCTACGCAGGCCATCCCATGGAGCGCTGGTGGGGGGTTCCCGGAGCGGCAGCT GCGCCACCCACCACCAGTTGTGCCCTTCCGCTGCCTGCCTGGTGAATTTGTGAGTG AGGCCCTGCTGGTGCCTGAAGGCTGCCGTTCTTGCACCAGGAGCGCATGGACCAATGTG AGAGTTCAACCCGGAGGCATCAGGAGGCACAGGAGGCCTGCAGCTCCAGGGCCTCATCC TGCACGGCTCGGGCATGCTTTACCCTGTGGCTCGGATCGGTTCCGTGGTGTGGAGTATG TGTGCTGTCCCCCTCCAGGGACCCCGACCCATCTGGGACAGCAGTTGGTACCCTCCA CCCGTCTGGCCCCGGNGAGCANAGTANAGGGGGCTGANGACGANGAAGAGGAGAAATCC TTCCACAGCCAGTAGATGATACTTCGTGGAGCCTCCGACGCTGAAAAGAGAGGGNAAACG GTCCACCCAGCTCCATACCTNGCAGTGGTCGNAAGTCACTCCACCCGAGCCACAGAA GGGGGTGAATATTACTTTGGCTGCCTGGGAATCATGGACCCAGGGGTCTGAGGGCANAT GGACTNAAGGACCTAGAGCCCT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005166 unedited</p> <pre>ACTTCCAGGGCCGNAAAGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTTCC AGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGGT AGGGAAGAGGACTTTATTGGGATGTTAGTAGGGAAACATGAGAGGGTGAATTCAGGGAA TAGACTAGGACCAAGTGGCGGTACCTTAAAGAGCCATAAATAAACTTAAAAATAA ATTAAGGTGAGGAGGTGCCACGTGGGGAGGCTGCTGGGACTATCTGGGAATCTTAGGGA TGGAATTTTGAATTGGAAAGGGGAAATAAGAATTTCCAGCCGCTCACAAAAGGGTGTG AAATGATCACTTCAAGACTCCCTGCTGCCCTAGGCTGGGAGTTGGGGTCTGGGGCTCCA GGAAGAGGGGAGGTCTGGGCTCGGCTGAAGGGGTGAAGGGGGCCGGGTGAGGGTCTGTTCC TCCAGGAAGCGGTAAGTGGGTTCTCATAGCCGTGCCGCTGCAGTTCGCGGAGCTGCTGC TCCTCCAGGGTCAGCATGGGGTCCACCTCCACCACGCCATGGCTGATAGCCCCGTNAGGC TTCTTCCGTGCGCAGGAGCAGCATGGAGAGGACGATGAGGGAGCCTCCGCCGCTCCCATG ATCAGCAGACCCGACACAGCCTCACGGGACACCCCTGTCCAGCTGGTGCAGCTCATCC CTCTGAATCTNCGATGAGTGGGAAAGGGAAACCCCTTGGAAACAGACGATTACCTTTCCG CTATACTGGTCCAGCGGGTTCATCTTCTTCTCAGGGGATGCGCATCTTGTCTGTGAC CTTTNGGAGGTAATNGGGGGGGGTCATCTTGATCTGGAGCTGCACCCACCTTGNCTCCT GTGCCAGGGGGAGGGCTTCACTGAACCAAGTGTGTTAANGGAAAGGGAGCTTTGGTT TTTTGGGCGATCTCACACAGNNGNNGNNTNT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005166
Insert Size:	2440 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).
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_005166.3](#), [NP_005157.1](#)

RefSeq Size: 2447 bp

RefSeq ORF: 1953 bp

Locus ID: 333

UniProt ID: [P51693](#)

Cytogenetics: 19q13.12

Domains: A4_EXTRA

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a member of the highly conserved amyloid precursor protein gene family. The encoded protein is a membrane-associated glycoprotein that is cleaved by secretases in a manner similar to amyloid beta A4 precursor protein cleavage. This cleavage liberates an intracellular cytoplasmic fragment that may act as a transcriptional activator. The encoded protein may also play a role in synaptic maturation during cortical development. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.