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Product datasheet for SC331990

APLP2 (NM_001243299) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APLP2 (NM_001243299) Human Untagged Clone
Tag:	Tag Free
Symbol:	APLP2
Synonyms:	APLP-2; APPH; APPL2; CDEBP
Vector:	pCMV6-Entry (PS100001)

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Fully Sequenced ORF:

>SC331990 representing NM_001243299.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGCTGCGAGCCCCGGGGGAGCTCCCGCGCCAGGCCGCCCGCTGCTCCCTCTGCCGCCTGGGGCCGGGT
CGCGGACGCGCATTTTTTAAGTGGCGCTGTTTGCCTGCGTCCGTAGACCGAGGAAACCCGCTCTGGGCT
CTTGCAGCCAATGCCGGAACAGGATTTGCTGTTGCTGAGCCTCAAATCGCAATGTTTTGTGGGAAGTTA
AATATGCATGTGAACATTCAGACTGGGAAATGGGAACCTGATCCAACAGGCACCAAGAGCTGCTTTGAA
ACAAAAGAAGAAGTTCTTCAGTACTGTCAGGAGATGTATCCAGAGCTACAGATCACAAATGTGATGGAG
GCAAACCAGCGGGTTAGTATTGACAACTGGTGCCGGAGGGACAAAAAGCAATGCAAGAGTCGCTTTGTT
ACACCTTTCAAGTGTCTCGTGGGTGAATTTGTAAGTGATGTCCTGCTAGTTCCAGAAAAGTGCCAGTTT
TTCCACAAAGAGCGGATGGAGGTGTGTGAGAATCACCAGCACTGGCACACGGTAGTCAAAGAGGCATGT
CTGACTCAGGGAATGACCTTATATAGCTACGGCATGCTGCTCCCATGTGGGGTAGACCAGTTCCATGGC
ACTGAATATGTGTGCTGCCCTCAGACAAAGATTATTGGATCTGTGTCAAAAGAAGAGGAAGAGGAAGAT
GAAGAGGAAGAGGAAGAGGAAGATGAAGAGGAAGACTATGATGTTTATAAAAGTGAATTTCCTACTGAA
GCAGATCTGGAAGACTTCACAGAAGCAGCTGTGGATGAGGATGATGAGGATGAGGAAGAAGGGGAGGAA
GTGGTGGAGGACCGAGATTACTACTATGACACCTTCAAAGGAGATGACTACAATGAGGAGAATCCTACT
GAACCCGGCAGCGACGGCACCATGTCAGACAAGGAAATTACTCATGATGTCAAAGCTGTCTGCTCCCAG
GAGGCGATGACGGGGCCCTGCCGGGCCGTGATGCCTCGTTGGTACTTCGACCTCTCCAAGGGAAAGTGC
GTGCGCTTTATATATGGTGGCTGCGGCGGCAACAGGAACAATTTTGAGTCTGAGGATTATTGTATGGCT
GTGTGTAAAGCGATGATTCCTCCAACTCCTCTGCCAACCAATGATGTTGATGTGTATTTCGAGACCTCT
GCAGATGATAATGAGCATGCTCGCTTCCAGAAGGCTAAGGAGCAGCTGGAGATTCGGCACCGCAACCGA
ATGGACAGGGTAAAGAAGGAATGGGAAGAGGCAGAGCTTCAAGCTAAGAACCTCCCCAAAGCAGAGAGG
CAGACTCTGATTCAGCACTTCCAAGCCATGGTTAAAGCTTTAGAGAAGGAAGCAGCCAGTGAGAAGCAG
CAGCTGGTGGAGACCCACCTGGCCCGAGTGGAAGCTATGCTGAATGACCGCCGTCGGATGGCTCTGGAG
AACTACCTGGCTGCCTTGCAGTCTGACCCGCCACGGCCTCATCGCATTCTCCAGGCCTTACGGCGTTAT
GTCCGTGCTGAGAACAAAGATCGCTTACATACCATCCGTCATTACCAGCATGTGTTGGCTGTTGACCCA
GAAAAGGCGGCCCAGATGAAATCCCAGGTGATGACACATCTCCACGTGATTGAAGAAAGGAGGAACCAA
AGCCTCTCTCTGCTCTACAAAGTACCTTATGTAGCCCAAGAAATTCAAGAGGAAATTGATGAGCTCCTT
CAGGAGCAGCGTGCAGATATGGACCAGTTCACTGCCTCAATCTCAGAGACCCCTGTGGACGTCCGGGTG
AGCTCTGAGGAGAGTGAGGAGATCCCACCGTTCCACCCCTTCCACCCCTTCCCAGCCCTACCTGAGAAC
GAAGGATCTGGAGTGGGAGAGCAGGATGGGGGACTGATCGGTGCCGAAGAGAAAGTGATTAACAGTAAG
AATAAAGTGGATGAAAACATGGTCATTGACGAGACTCTGGATGTTAAGGAAATGATTTTCAATGCCGAG
AGAGTTGGAGGCCTCGAGGAAGAGCGGGAATCCGTGGGCCCACTGCGGGAGGACTTCAGTCTGAGTAGC
AGTGCTCTCATTGGCCTGCTGGTCATCGCAGTGGCCATTGCCACGGTCATCGTCATCAGCCTGGTGATG
CTGAGGAAGAGGCAGTATGGCACCATCAGCCACGGGATCGTGGAGGTTGATCCAATGCTCACCCCAGAA
GAGCGTCACCTGAACAAGATGCAGAACCATGGCTATGAGAACCCCACCTACAAATACCTGGAGCAGATG
CAGATTTAG

Restriction Sites: SgfI-MluI

ACCN: NM_001243299

Insert Size: 2286 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_001243299.1
RefSeq Size:	3709 bp
RefSeq ORF:	2286 bp
Locus ID:	334
UniProt ID:	Q06481
Cytogenetics:	11q24.3
Protein Families:	Druggable Genome, Transmembrane
MW:	87.2 kDa
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] Transcript Variant: This variant (7) differs in the 5' exon and also lacks an in-frame exon in the 3' coding region, compared to variant 1. It encodes isoform 5 which has a different N-terminus and lacks an internal segment in the C-terminal region, compared to isoform 1.