

## Product datasheet for **RG215282**

### **APLP1 (NM\_005166) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	APLP1 (NM_005166) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	APLP1
Synonyms:	APLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG215282 representing NM\_005166  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGCCCGCCAGCCCCGCTGCTCGCGTCTAAGTCGCCGCCCGGGCCAGCCCGCCTGCCGCTGCTGC  
 TGCCACTATTGCTGCTGCTTCTGCGCGCCAGCCGCCATCGGGAGCCTGGCCGGTGGGAGCCCCGGCGC  
 GGCCGAGGCCCGGGGTGCGCCAGGTGGCTGACTATGCGGGCCCTAACCCCTTACCCGGACCTGCGC  
 ACCGGCCGCTGGGAACAGACCCACAGCGCTCTCGACGCTGTCTCCGGGACCCGAGCGCGTGTGGAGT  
 ACTGCAGACAGATGTACCCGGAGCTGCAGATTGCACGTGTGGAGCAGGCTACGCAGGCCATCCCCATGGA  
 GCGCTGGTGGGGGTTCCCGGAGCGGCAGCTGCGCCACCCCCACCAGGTTGTGCCCTTCCGCTGC  
 CTGCTGGTGAATTTGTGAGTGAGGCCCTGCTGGTGCCTGAAGGCTGCCGTTCTTGACCAGGAGCGCA  
 TGGACCAATGTGAGAGTCAACCCGGAGGCATCAGGAGGCACAGGAGGCTGCAGCTCCAGGGCCCTCAT  
 CCTGCACGGCTCGGCATGCTCTTACCCTGTGGCTCGGATCGGTTCCGTTGGTGTGGAGTATGTGTGCTGT  
 CCCCTCCAGGGACCCCGACCCATCTGGGACAGCAGTTGGTGACCCCTCCACCCGGTCTGGCCCCCGG  
 GGAGCAGAGTAGAGGGGGCTGAGGACGAGGAAGAGGAGGAATCCTTCCCACAGCCAGTAGATGATTACTT  
 CGTGGAGCCTCCGAGGCTGAAGAGGAAGAGAAACGGTCCCACCCCAAGCTCCCATACACTTGCAGTG  
 GTCGGCAAAGTCACTCCCACCCCGAGGCCACAGACGGTGTGGATATTTACTTTGGCATGCCTGGGGAAA  
 TCAGTGAGCACGAGGGGTTCTGAGGGCAAGATGGACCTGGAGGAGCGTAGGATGCGCCAGATTAATGA  
 GGTGATGCGTGAATGGGCCATGGCAGACAACAGTCCAAGAACCTGCCTAAAGCCGACAGACAGGCCCTG  
 AATGAGCACTTCCAGTCCATTCTGCAGACTCTGGAGGAGCAGGTGTCTGGTGAGCGACAGCGCTTCTGGG  
 AAACCCACGCCACCCGCTCATCGCCCTTATCAACGACCAGCGCCGGGCTGCCTTGGAGGGCTTCTGGC  
 AGCCCTGCAGGCAGATCCGCCTCAGGCGGAGCGTGTCTGTTGGCCCTGCGGCGCTACCTGCGTGGGAG  
 CAGAAGGAACAGAGGCACACGCTGCGCCACTACCAGCATGTGGCCGCGTGGATCCCAGAGAGGCACAGC  
 AGATGCGCTTCCAGGTGCATACCCACCTTCAAGTGATTGAGGAGAGGGTGAATCAGAGCCTGGGCTGCT  
 TGACCAGAACCCCACTGGCTCAGGAGCTGCGGCCCAATCCAGGAACCTCCACTCTGAACACCTG  
 GGTCCCAGTGAATTGGAAGCCCTGCCCTGGGGCAGCAGCGAGGACAAGGGTGGGCTGCAGCCTCCAG  
 ATTCCAAGGATGACACCCCATGACCCTTCCAAAAGGGTCCACAGAACAAGATGCTGCATCCCCTGAGAA  
 AGAGAAGATGAACCCGCTGGAACAGTATGAGCGAAAGGTGAATGCGTCTGTTCCAAGGGGTTTCCCTTC  
 CACTCATCGGAGATTAGAGGGATGAGCTGGCACCAGCTGGGACAGGGGTGCCCTGAGGCTGTGTGCG  
 GTCTGCTGATCATGGGAGCGGGCGGAGGCTCCCTCATCGTCTTCCATGCTGCTCTGCCAGGAAGAA  
 GCCCTACGGGGCTATCAGCCATGGCGTGGTGGAGGTGGACCCATGCTGACCCTGGAGGAGCAGCAGCTC  
 CGGAACTGCAGCGGCACGGCTATGAGAACCCACTTACCCTTCTGGAGGAACGACCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG215282 representing NM\_005166  
 Red=Cloning site Green=Tags(s)

MGPASPAARGLSRRPQPPLPLLLPLLLLLLRAQPAIGSLAGGSPGAAEAPGSAQVAGLCGRLTLHRDLR  
 TGRWEPDPQRSRRCLRDPQRVLEYCRQMYPELQIARVEQATQAIPMERWCGGSRSGSCAHPHHQVVPFRC  
 LPGEFVSEALLVPEGCRFLHQERMDQCESSTRRHQEAQEAQESSQLILHGSMLLP CGSDRFRGVEYVCC  
 PPPGTPDPSTAVGDPSTRSWPPGSRVEGADEEEEEESFPQPVDDYFVEPPQAEETVPPSSHTLAV  
 VGKVTPTPRPTDGVDIYFGMPGEISEHEGFLRAKMDLEERRMRQINEVMREWAMADNQSKNLPKADRQAL  
 NEHFQSILQTLQVSGERQRLVETHATRVIALLINDQRRAALEGFLAALQADPPQAERVLLALRRYLRAE  
 QKEQRHTLRHYQHVAAYDPEKAQMRQVHTLQVIEERNQSLGLLDQNPHLAQELRPQIQELLHSEHL  
 GPSELEAPAPGGSSSEDKGLQPPDSKDDTPMTLPKGSTEQDAASPEKEKMNPLEQYERKVNASVPRGFPF  
 HSSEIQRDELAPAGTGVSRVAVSGLLIMGAGGGSLLIVLSMLLLRRKKPYGAISHGVVEVDPMLEEQQL  
 RELQRHGYENPTYRFLEERP

**TRTRPLE** - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_005166

ORF Size: 1950 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).

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\\_005166.4](#)

RefSeq Size: 2447 bp

RefSeq ORF: 1953 bp

Locus ID: 333

UniProt ID: [P51693](#)

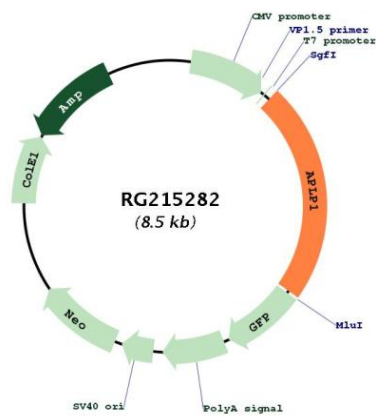
**Cytogenetics:** 19q13.12

**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]

**Product images:**



Circular map for RG215282