

Product datasheet for **MR210097**

Aplp2 (NM_009691) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aplp2 (NM_009691) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aplp2
Synonyms:	A1790698; APLP-2; CDEBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210097 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCACCGGGACCGCGGCCGCTGCGGCCACCGGCAAGCTTCTTGTCTGTCTGCTGCTCGGGCTCA
 CGGCGCCCGCTGCGGCTCTGGCTGGCTACATAGAGGCTCTTGCAGCCAATGCTGGAACAGGCTTCGCTGT
 TGCTGAGCCTCAGATTGCGATGTTCTGTGGGAAGCTGAATATGCATGTGAACATTCAGACTGGCAAATGG
 GAGCCTGACCCAACAGGCACCAAGAGCTGCCTTGAACAAAGGAGGAGGTTCTTCAGTACTGCCAGGAGA
 TATATCCAGAGCTGCAGATCACAAATGTGATGGAAGCAAACCAGCCAGTCAATATTGATAGTTGGTGCCG
 AAGGGACAAAAGGCAGTGAAGAGTACATTGTTATACCATTCAAGTGTCTTGTGGGTGAATTTGTAAGT
 GATGTCCTGCTAGTTCAGATAACTGCCAGTTTTCCACCAAGAGCGGATGGAGGTGTGTGAGAAGCACC
 AGCGCTGGCACACGTTAGTCAAGGAGGCATGTCTGACTGAGGGGCTGACCTTATATAGCTATGGCATGCT
 GCTGCCCTGCGGGTAGACCAGTCCATGGCACCAGTATGTGTGCTGCCCTCAGACAAAGACTGTTGAC
 TCGGACTCGACTATGTCCAAAGAAGAGGAGGAAGAGGAAGAGGATGAAGAGGACGAAGAGGAAGACTATG
 ATCTTGATAAAAAGTGAATTTCTACTGAAGCAGATTTGGAAGACTTCACAGAAGCAGCAGAGATGAGGA
 AGAAGAGGATGAGGAGGAAGGGGAGGAAGTGGTGAAGACCGTACTACTACTATGACCCCTTTAAAGGA
 GACGATTACAATGAGGAGAAATCCAACCGAACCCAGCAGCGAGGGCACCATTTAGACAAGGAGATTGTTT
 ACGATGTTAAAGTTCCTCCGACTCCCCTGCCAACCAATGATGTTGATGTGTATTTTGGAGCTCAGCGGA
 TGATAATGAGCACGCCGCTTCCAGAAGGCTAAGAACAGCTGGAATTCGACATCGAAACCGAATGGAC
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 TCATCCAGCATTTCGAAGCTATGGTTAAAGCTTTAGAGAAAGAAGCAGCCAGTGAGAAGCAGCAGCTTGT
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 AGAACAAAGATCGCTGCATACCATTGCTCATTACCAACACGTGTTGGCTGTTGACCCAGAAAAGGCCGC
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 CTGTACAAAGTTCCTTATGTTGCTCAAGAAATTCAGAGGAAATGATGAGCTCCTTCAGGAACAGCGAG
 CGGATATGGACCAATTTACCTCCTCATCTCAGAGAACCCTGTGGATGTCCGGGTGAGCTCTGAGGAGAG
 TGAGGAGATCCCCTGTTCCACCCTCTCCATCCCTTCTATCCTTGTCTGAGAATGAAGGCTCTGGAATG
 GCAGAACAAGACGGGGACTGATTGGTGCAGAAGAAAAGTGATTAACAGCAAGAATAAAATGGATGAAA
 ATATGGTCATTGACGAGACTCTGGATGTTAAGGAAATGATTTTCAATGCTGAGAGAGTTGGAGGCCCTTGA
 GGAAGAGCCGGAATCGGTGGGACCTTTAAGGGAGGATTTAGTTTGGAGCAATGCCCTTATTGGCTTG
 CTGTTATCGCAGTGGCCATTGTACGGTCATCGTTATCAGCCTGGTGTGCTGAGGAAGAGGCAGTACG
 GCACCATCAGCCACGGGATTGTGGAGGTTGACCAATGCTCACCCAGAAGAGCGTCACCTGAACAAGAT
 GCAGAACCATGGTTATGAAAACCAACCTACAAATACCTGGAGCAGATGCAGATT

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210097 protein sequence
 Red=Cloning site Green=Tags(s)

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MAATGTA AAAATGKLLVLLLLGLTAPAAALAGYIEALAANAGTGF A VAEPQIAMFCGKLNMHVNIQTGKW
EPDPTGTKSCLGTKEEVLQYCQEIYPQLITNVMEANQPVNIDSWCRDRKROCKSHIVIPFKLVGEFVS
DVLLVPDNCQFFHQERMEVCEKHQRWHTLVKEACLTEGLTLYSYGMLLPCGVDQFHGTEYVCCPQTKTVD
SDSTMSKEEEEEEEEEDEEEDYDLKSEFPTEADLEDFTEAAADEEEEEEEGEEVVEDRDYYDYPFKG
DDYNEENPTESPSEGTISDKIIVHDVKVPPTPLPTNDVDVYFETSADDNEHARFQKAKEQLEIRHRNRMD
RVKKEWEEAELQAKNLPKTERQTLIQHFQAMVKALEKEAASEKQQLVETHLARVEAMLNDRRRIALENYL
AALQSDPPRPHRILQALRRYVRAENKDRLHTIRHYQHVLAVDPEKAAQMSQVMTHLHVIEERRNQSLSL
LYKVPYVAQEIQEEIDELLQEQRADMDQFTSSISENPVDVRSSEESIEIPPFHPLHPFLSLENEGSGM
AEQDGGIGAEKVINSKNKMDENMVIDETLDVKEMIFNAERVGGLEEEPEVSGPLREDFSLSSNALIGL
LVIAVAIATVIVISLVMLRKRQYGTISHGIVEVDPMLTPEERHLNKMQNHGYNPTKYLEQMQUI
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_009691

ORF Size: 2088 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_009691.1](#), [NM_009691.2](#), [NP_033821.1](#)

RefSeq Size: 3490 bp

RefSeq ORF: 2088 bp

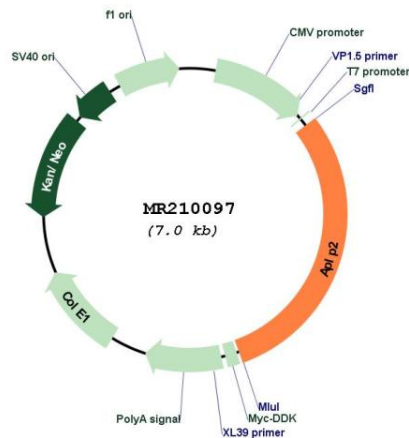
Locus ID: 11804

Cytogenetics: 9 16.66 cM

MW: 79 kDa

Gene Summary: May play a role in the regulation of hemostasis. The soluble form may have inhibitory properties towards coagulation factors. May interact with cellular G-protein signaling pathways. May bind to the DNA 5'-GTCACATG-3'(CDEI box). Inhibits trypsin, chymotrypsin, plasmin, factor XIA and plasma and glandular kallikrein (By similarity). Modulates the Cu/Zn nitric oxide-catalyzed autodegradation of GPC1 heparan sulfate side chains in fibroblasts. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210097