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Product datasheet for MR210177

Aplp2 (NM_001102456) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aplp2 (NM_001102456) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aplp2
Synonyms:	AI790698; APLP-2; CDEBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR210177 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCACCGGGACCGCGGCCGCTGCGGCCACCGGCAAGCTTCTTGTCCTGCTGCTGCTCGGGCTCA
CGGCGCCCGCTGCGGCTCTGGCTGGCTACATAGAGGCTCTTGCAGCCAATGCTGGAACAGGCTTCGCTGT
TGCTGAGCCTCAGATTGCGATGTTCTGTGGGAAGCTGAATATGCATGTGAACATTCAGACTGGCAAATGG
GAGCCTGACCCAACAGGCACCAAGAGCTGCCTTGGAACAAAGGAGGAGGTTCTTCAGTACTGCCAGGAGA
TATATCCAGAGCTGCAGATCACAAATGTGATGGAAGCAAACCAGCCAGTCAATATTGATAGTTGGTGCCG
AAGGGACAAAAGGCAGTGCAAGAGTCACATTGTTATACCATTCAAGTGTCTTGTGGGTGAATTTGTAAGT
GATGTCCTGCTAGTTCCAGATAACTGCCAGTTTTTCCACCAAGAGCGGATGGAGGTGTGTGAGAAGCACC
AGCGCTGGCACACGTTAGTCAAGGAGGCATGTCTGACTGAGGGGCTGACCTTATATAGCTATGGCATGCT
GCTGCCCTGCGGGGTAGACCAGTTCCATGGCACCGAGTATGTGTGCTGCCCTCAGACAAAGACTGTTGAC
TCGGACTCGACTATGTCCAAAGAAGAGGAGGAAGAGGAAGAGGATGAAGAGGACGAAGAGGAAGACTATG
ATCTTGATAAAAGTGAATTTCCTACTGAAGCAGATTTGGAAGACTTCACAGAAGCAGCAGCAGATGAGGA
AGAAGAGGATGAGGAGGAAGGGGAGGAAGTGGTGGAAGACCGTGACTACTACTATGACCCCTTTAAAGGA
GACGATTACAATGAGGAGAATCCAACCGAACCCAGCAGCGAGGGCACCATTTCAGACAAGGAGATTGTTC
ACGATGTTAAAGTTCCCCCGACTCCCCTGCCAACCAATGATGTTGATGTGTATTTTGAGACCTCAGCGGA
TGATAATGAGCACGCCCGCTTCCAGAAGGCTAAGGAACAGCTGGAAATTCGACATCGAAACCGAATGGAC
AGGGTAAAGAAGGAATGGGAAGAGGCAGAACTTCAAGCCAAGAACCTCCCCAAGACAGAAAGACAGACCC
TCATCCAGCATTTCCAAGCTATGGTTAAAGCTTTAGAGAAAGAAGCAGCCAGTGAGAAGCAGCAGCTTGT
GGAAACCCATCTGGCCCGAGTAGAAGCCATGCTGAATGACCGCCGACGCATAGCTCTGGAAAATTACCTG
GCTGCCCTGCAGTCTGACCCACCTCGGCCACATCGGATTCTTCAAGCTCTTCGTCGTTACGTCCGTGCTG
AGAACAAAGATCGCCTGCATACCATTCGTCATTACCAACACGTGTTGGCTGTTGACCCAGAAAAGGCCGC
CCAGATGAAATCCCAGGTGATGACACACCTCCATGTGATTGAAGAAAGAAGGAACCAAAGTCTTTCTCTT
CTGTACAAAGTTCCTTATGTTGCTCAAGAAATTCAAGAGGAAATTGATGAGCTCCTTCAGGAACAGCGAG
CGGATATGGACCAATTTACCTCCTCCATCTCAGAGAACCCTGTGGATGTCCGGGTGAGCTCTGAGGAGAG
TGAGGAGATCCCGCCGTTCCACCCTCTCCATCCCTTCCCATCCTTGTCTGAGAATGAAGACACTCAGCCG
GAGTTGTACCACCCAATGAAAAAAGGCTCTGGAATGGCAGAACAAGACGGGGGACTGATTGGTGCAGAAG
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AATGATTTTCAATGCTGAGAGAGTTGGAGGCCTTGAGGAAGAGCCGGAATCGGTGGGACCTTTAAGGGAG
GATTTCAGTTTGAGCAGCAATGCCCTTATTGGCTTGCTGGTTATCGCAGTGGCCATTGCTACGGTCATCG
TTATCAGCCTGGTGATGCTGAGGAAGAGGCAGTACGGCACCATCAGCCACGGGATTGTGGAGGTTGACCC
AATGCTCACCCCAGAAGAGCGTCACCTGAACAAGATGCAGAACCATGGTTATGAAAACCCAACCTACAAA
TACCTGGAGCAGATGCAGATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

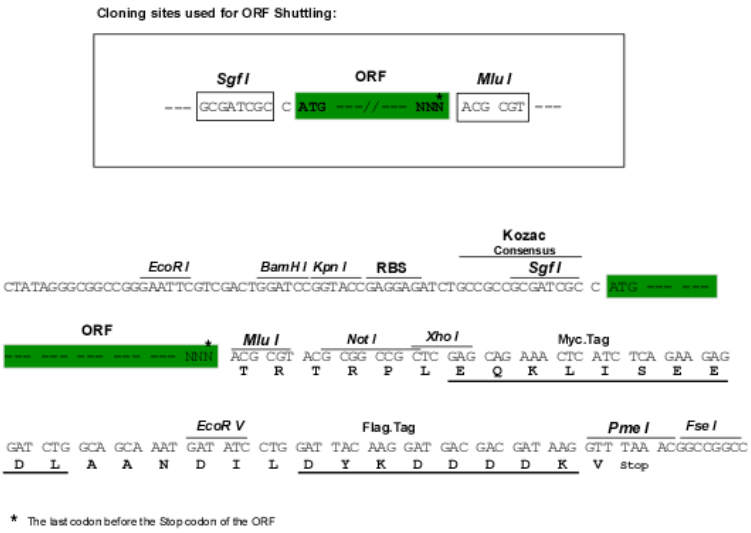
>MR210177 protein sequence
Red=Cloning site Green=Tags(s)

MAATGTAAAAATGKLLVLLLLGLTAPAAALAGYIEALAANAGTGFAVAEPQIAMFCGKLNMHVNIQTGKW
EPDPTGTKSCLGTKEEVLQYCQEIYPELQITNVMEANQPVNIDSWCRRDKRQCKSHIVIPFKCLVGEFVS
DVLLVPDNCQFFHQERMEVCEKHQRWHTLVKEACLTEGLTLYSYGMLLPCGVDQFHGTEYVCCPQTKTVD
SDSTMSKEEEEEEEDEEDEEEDYDLDKSEFPTEADLEDFTEAAADEEEEDEEEGEEVVEDRDYYYDPFKG
DDYNEENPTEPSSEGTISDKEIVHDVKVPPTPLPTNDVDVYFETSADDNEHARFQKAKEQLEIRHRNRMD
RVKKEWEEAELQAKNLPKTERQTLIQHFQAMVKALEKEAASEKQQLVETHLARVEAMLNDRRRIALENYL
AALQSDPPRPHRILQALRRYVRAENKDRLHTIRHYQHVLAVDPEKAAQMKSQVMTHLHVIEERRNQSLSL
LYKVPYVAQEIQEEIDELLQEQRADMDQFTSSISENPVDVRVSSEESEEIPPFHPLHPFPSLSENEDTQP
ELYHPMKKGSGMAEQDGGLIGAEEKVINSKNKMDENMVIDETLDVKEMIFNAERVGGLEEEPESVGPLRE
DFSLSSNALIGLLVIAVAIATVIVISLVMLRKRQYGTISHGIVEVDPMLTPEERHLNKMQNHGYENPTYK
YLEQMQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001102456

ORF Size: 2124 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_001102456.1, NP_001095926.1

RefSeq Size: 3526 bp

RefSeq ORF: 2124 bp

Locus ID: 11804

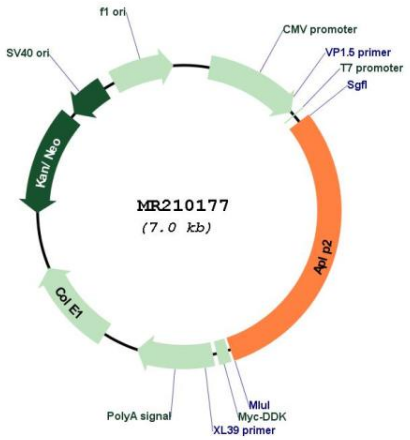
UniProt ID: Q06335

Cytogenetics: 9 16.66 cM

MW: 80.5 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 MR210177