

Product datasheet for **RR217172**

Aplp2 (NM_022520) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aplp2 (NM_022520) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aplp2
Synonyms:	APLP-2; Apph; WALPLP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR217172 representing NM_022520
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCACCGGGACCGCGGCCGCTGCGGCCACCGGCAAGCTTCTTGTCTGTCTGCTGCTCGGGCTCA
 CGGCACCCGACGCGGCTCTGGCTGGCTATATCGAGGCTCTCGCAGCCAATGCTGGAACAGGCTTTGCGGT
 TGCTGAACCTCAGATTGCCATGTTCTGTGGGAAGCTGAACATGCATGTGAACATTCAGACTGGGAAGTGG
 GAGCCTGACCCAACCGGCACCAAGAGCTGCCTGGGAACAAAGGAGGAAGTTCTTCAGTACTGCCAGGAGA
 TATATCCAGAGCTGCAGATCACAAATGTGATGGAAGCAAACCAGCCAGTCAATATTGATAGTTGGTGCCG
 AAGGGACAAAAACAGTGCAGGAGTACATTGTTATACCATTCAAGTGTCTTGTGGGTGAATTTGTAAGT
 GATGTTCTGCTAGTTCAGAAAAGTCCAGTTTTTCCACCAAGAGCGGATGGAGGTGTGTGAGAAGCATC
 AGCGGTGGCACACAGTCGTCAAGGAGGCATGTCTGACTGAGGGGATGACCTTATATAGCTATGGCATGCT
 GCTGCCCTGTGGGTAGACCAGTCCATGGCACTGAGTATGTGTGCTGCCCTCAGACAAAGTTGTTGAC
 TCTGACTCCACTATGTCCAAAGAAGAGGAGGAAGAAGAGGAAGAGGATGAAGAAGAAGACTATGCTCTTG
 ATAAAAGTGAATTTCTACCGAAGCAGATCTGGAAGACTTCACAGAAGCAGCTGCAGATGAGGACGAGGA
 TGAGG
 AAAGGAGATGATTACAATGAGGAGAACCAACTGAACCCAGCAGCGATGGCACCATCTCAGACAAGGAGA
 TTGCTCACGATGTTAAAGCTGTCTGCTCCAGGAGGCCATGACGGGGCCCTGCCGGGCCGTGATGCCTCG
 TTGGTACTTCGACCTCTCCAAGGAAAGTGCCTACGCTTATATATGGCGGCTGCGGCGGCAACAGGAAC
 AATTTTGAGTCTGAGGATTATTGTATGGCTGTGTGTAACACGATGATCCCCGACTCCCCTGCCAACCA
 ATGATGTGGACGTGATTTTGGACGTCGGCTGATGACAATGAGCACGCCCGCTTTCAGAAGGCTAAGGA
 GCAGTTGGAAATTCGGCATCGCAGCCGAATGGACAGGGTAAAAAAGGAGTGGGAAGAAGCAGAATTCAA
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 GAGGAAATGATGAGCTCCTCAGGAACAGCAGCAGATATGGACCAGTTTACCTCCTCCATCTCAGAGA
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 CCCATCCTTGTCTGAGAACGAAGGATCTGGAATGGCAGAGCAAGATGGGGCCTGATTGGTGCAAGAA
 AAGGTGATCAACAGTAAGAATAAAATGGATGAAAATATGGTCATTGACGAGACTCTGGATGTTAAGGAAA
 TGATTTTCAATGCTGAGAGAGTTGGGGTCTGGAGGAAGAGCCGGACTCTGTGGGGCCTCTACGGGAGGA
 CTTCAAGTTGAGCAGCAGTGCCTTATTGGCTTGTGTCATCGCGGTGGCCATTGCTACAGTCAATCGTC
 ATCAGCCTGGTGTGCTGAGGAAGAGGCAATACGGCACCATCAGCCATGGCATTGTGGAGTTGATCCAA
 TGCTCACCCAGAAAGAGCGTCACTTGAACAAGATGCAGAACACGGCTATGAAAACCAACCTACAATA
 CCTGGAGCAGATGCAGATT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217172 representing NM_022520
 Red=Cloning site Green=Tags(s)

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MAATGTA AAAATGKLLVLLLLGLTAPAAALAGYIEALAANAGTGF AFAEPQIAMFCGKLNMHVNIQTGKW
EPDPTGKTKSCLGTKEEVLQYQCQEIYPQLITNVMEANQPVNIDSWCRDDKQCRSHVIVIPFKLVGEFVS
DVLLVPENCQFFHQERMEVCEKHQRWHTVVKEACLTEGMLTYSYGMLLPCGVDQFHGTEYVCCPQTKVVD
SDSTMSKEEEEEEEEDYALDKSEFPTEADLEDFTEAAADEDEDEEEEEEEGEEVVEDRDYDYDF
KGDYNEENPTEPSSDGTISDKEIAHDVKAVCSQEAMTGPCRAVMPRWYFDL SKGKCVRFIYGGCGGNRN
NFESEDYCMAVCKTMIPPTPLPTNDVDVYFETSADDNEHARFQKAKEQLEIRHRSRMDRVKKEWEEAELQ
AKNLPKAERQTLIQHFQAMVKALEKEAASEKQQLVETHLARVEAMLNDRRRIALENYLAALQSDPPRPHR
ILQALRRYVRAENKDRLHTIRHYQHLAVDPEKAAQMSQVMTHLHVIEERRNQLSLLLYKVPYVAQEIQ
EEIDELLQEQRADMDQFTSSISENPVDVRSSESESEIIPPFHPFHPFSLSENEGSGMAEQDGLIGAE
KVINSKNKMDENMVIDETLDVKEMIFNAERVGGLEEEPSVGPLREDFSLSSSALIGLLVIAVAIATVIV
ISLVMLRKRQYGTISHGIVEVDPMLTPEERHLNKMQNHGYNPTYKYLEQMQI
  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_022520

ORF Size: 2259 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_022520.1](#), [NP_071965.1](#)

RefSeq Size: 3608 bp

RefSeq ORF: 2262 bp

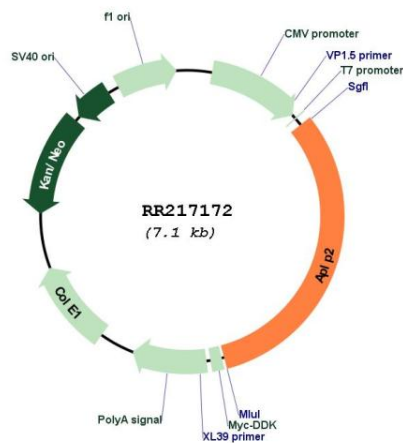
Locus ID: 64312

Cytogenetics: 8q13

MW: 85.4 kDa

Gene Summary: may contribute to membrane cytoplasmic junctions in sperm membranes [RGD, Feb 2006]

Product images:



Circular map for RR217172