

## Product datasheet for **RC205158**

### PHAPI2 / APRIL (ANP32B) (NM\_006401) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PHAPI2 / APRIL (ANP32B) (NM_006401) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PHAPI2 / APRIL
Synonyms:	APRIL; PHAPI2; SSP29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205158 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACATGAAGAGGAGGATCCACCTGGAGCTGAGGAACCGGACCCGGCAGCTGTTTCGAGAACTTGTCT  
TGGACAATTGCAAATCAAATGATGGAAAAATTGAGGGCTTAACAGCTGAATTTGTGAACTTAGAGTTCTT  
CAGTTTAAATAAATGATAGGCTTGATCTCAGTTTCAAATCTCCCAAGCTGCCTAAATTGAAAAAGCTTGAA  
CTCAGTAAAAATAGAATCTTTGGAGTCTGGACATGTTAGCTGAAAAACTTCAAATCTCACACATCTAA  
ACTTAAGTGGAAATAAACTGAAAGATATCAGCACCTTGAACCTTTGAAAAAGTTAGAATGTCTGAAAAG  
CCTGGACCTCTTTAACTGTGAGGTTACCAACCTGAATGACTACCGAGAGAGTGTCTTCAAGCTCCTGCC  
CAGCTTACCTACTTGGATGGCTATGACCGAGAGGACCAGGAAGCACCTGACTCAGATGCCGAGGTGGATG  
GTGTGGATGAAGAGGAGGAGGACGAAGAAGGAGAAGATGAGGAAGACGAGGACGATGAGGATGGTGAAGA  
AGAGGAGTTTGTGAAGAAGATGATGAAGATGAAGATGTAGAAGGGGATGAGGACGACGATGAAGTCAGT  
GAGGAGGAAGAAGATTTGGACTTGATGAAGAAGATGAAGATGAGGATGAGGATGAAGAGGAGGAAGAAG  
GTGGAAAGGTGAAAAGAGGAAGAGAGAAACAGATGATGAAGGAGAAGATGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC205158 protein sequence  
 Red=Cloning site Green=Tags(s)

MDMKRRIHLELRNRTPAAVRELVLDNCKSNDGKIEGLTAEFVNLEFLSLINVGLISVSNLPKLPKLLKLE  
 LSENRIFGGLDMLAEKLPNLTHLNLSGNKLKDISTLEPLKKLECLKSLDLFNCEVTNLNDYRESVFKLLP  
 QLTYLGDYDREDQEAPSDAEVDGVDEEEDEEGEDEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE  
 EEEEEFGLDEDEDEDEDEDEEEEGGKGEKRRKRETDDEGEDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6135\\_b01.zip](https://cdn.origene.com/chromatograms/mk6135_b01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_006401

**ORF Size:** 753 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\\_006401.3](#)

**RefSeq Size:** 1617 bp

**RefSeq ORF:** 756 bp

**Locus ID:** 10541

**UniProt ID:** [Q92688](#)

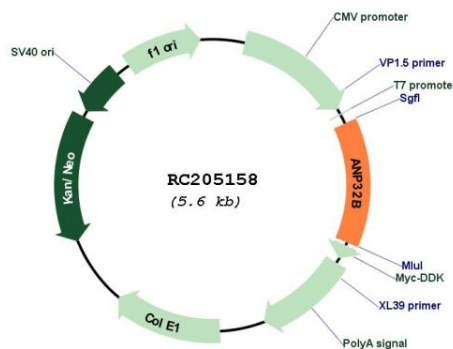
**Cytogenetics:** 9q22.33

**Domains:** LRR, LRRcap

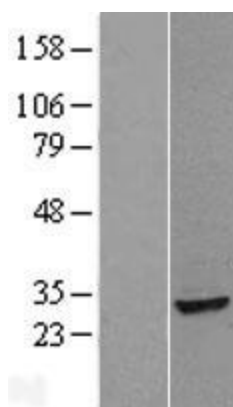
**MW:** 28.8 kDa

**Gene Summary:** Multifunctional protein working as a cell cycle progression factor as well as a cell survival factor. Required for the progression from the G1 to the S phase. Anti-apoptotic protein which functions as a caspase-3 inhibitor. Has no phosphatase 2A (PP2A) inhibitor activity (By similarity). Exhibits histone chaperone properties, stimulating core histones to assemble into a nucleosome.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC205158



Western blot validation of overexpression lysate (Cat# [LY401922]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205158 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).