

Product datasheet for **RG205158**

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:	TurboGFP
Symbol:	PHAPI2 / APRIL
Synonyms:	APRIL; PHAPI2; SSP29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205158 representing NM_006401 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACATGAAGAGGAGGATCCACCTGGAGCTGAGGAACCGGACCCGGCAGCTGTTGAGAACTTGTCT
TGGACAATTGCAAATCAAATGATGGAAAAATTGAGGGCTTAACAGCTGAATTTGTGAACTTAGAGTTCT
CAGTTTAATAAAATGATAGGCTTGATCTCAGTTTCAAATCTCCCAAGCTGCCTAAATTGAAAAAGCTTGAA
CTCAGTAAAAATAGAATCTTTGGAGTCTGGACATGTTAGCTGAAAAACTCCAATCTCACACATCTAA
ACTTAAGTGGAAATAAACTGAAAGATATCAGCACCTTGAACCTTTGAAAAAGTTAGAATGTCTGAAAAG
CCTGGACCTCTTTAACTGTGAGGTTACCAACCTGAATGACTACCGAGAGAGTGTCTTCAAGCTCCTGCC
CAGCTTACCTACTTGGATGGCTATGACCGAGAGGACCAGGAAGCACCTGACTCAGATGCCGAGGTGGATG
GTGTGGATGAAGAGGAGGAGGACGAAGAAGGAGAAGATGAGGAAGACGAGGACGATGAGGATGGTGAAGA
AGAGGAGTTTGTGAAGAAGATGATGAAGATGAAGATGTAGAAGGGGATGAGGACGACGATGAAGTCAGT
GAGGAGGAAGAAGAAATTTGGACTTGATGAAGAAGATGAAGATGAGGATGAGGATGAAGAGGAGGAAGAAG
GTGGAAAGGTGAAAAGAGGAAGAGAGAAACAGATGATGAAGGAGAAGATGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205158 representing NM_006401
 Red=Cloning site Green=Tags(s)

MDMKRRIHLELRNRTPAAVRELVLNCKSNDGKIEGLTAEFVNLEFLSLINVGLISVSNLPKLPKLLKLE
 LSENRIFGGLDMLAEKLPNLTHLNLSGNKLKDISTLEPLKKLECLKSLDLFNCEVTNLNDYRESVFKLLP
 QLTYLGDYDREDQEAPSDAEVDGVDEEEDEEDEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE
 EEEEEFGLDEDEDEDEDEDEDEEEEGGKGEKRETDDEGEDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

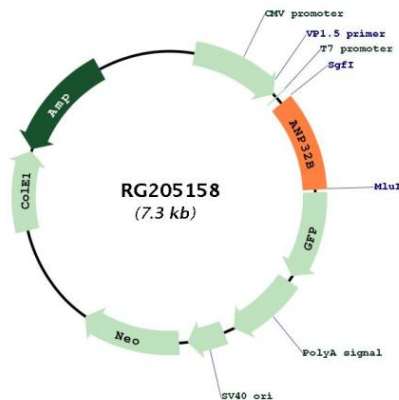
UniProt ID: [Q92688](#)

Cytogenetics: 9q22.33

Domains: LRR, LRRcap

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 RG205158