

Product datasheet for **RC202868**

PHAP1 (ANP32A) (NM_006305) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHAP1 (ANP32A) (NM_006305) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PHAP1
Synonyms:	C15orf1; HPPCn; I1PP2A; LANP; MAPM; PHAP1; PHAPI; PP32
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202868 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGATGGGCAGACGGATTTCATTTAGAGCTGCGGAACAGGACGCCCTCTGATGTGAAAGAACTTGTC
TGGACAACAGTCGGTCGAATGAAGGCAAACCTCGAAGGCCCTCACAGATGAATTTGAAGAACTGGAATTCCT
AAGTACAATCAACGTAGGCCTCACCTCAATCGCAAACCTACCAAAGTTAAACAACTTAAGAAGCTTGAA
CTAAGCGATAACAGAGTCTCAGGGGCCCTGGAAGTATTGGCAGAAAAGTGTCCGAACCTCACGCATCTAA
ATTTAAGTGGCAACAAAATTAAGACCTCAGCACAATAGAGCCACTGAAAAAGTTAGAAAACCTCAAGAG
CTTAGACCTTTTCAATTGCGAGGTAACCAACCTGAACGACTACCGAGAAAATGTGTTCAAGCTCCTCCCG
CAACTCACATATCTCGACGGCTATGACCGGGACGACAAGGAGGCCCTGACTCGGATGCTGAGGGCTACG
TGGAGGGCCTGGATGATGAGGAGGAGGATGAGGATGAGGAGGAGTATGATGAAGATGCTCAGGTAGTGGA
AGACGAGGAGGACGAGGATGAGGAGGAGGAAGGTGAAGAGGAGGACGTGAGTGGAGAGGAGGAGGAGGAT
GAAGAAGTTATAACGATGGAGAGGTAGATGACGAGGAAGATGAAGAAGAGCTTGGTGAAGAAGAAAGGG
GTCAGAAGCGAAAACGAGAACCTGAAGATGAGGGAGAAGATGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202868 protein sequence
Red=Cloning site Green=Tags(s)

MEMGRRIHLELRNRTPSDVKELVLDNSRSNEGKLEGLTDFEELEFLSTINVGLTSIANLPKLNKLLKLE
 LSDNRVSGGLEVLAEKCPNLTHLNLSGNKIKDLSTIEPLKLENLKSLLDFNCEVTNLNDYRENVFKLLP
 QLTLYLDGYDRDDKEAPSDAEGYVEGLDDEEEDEDEEEYDEDAQVVEDEDEDEEEEGEEEDVSGEEED
 EEGYNDGEVDDEEDEEELGEEERGQKRKREPEDEGEDDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6283_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006305

ORF Size: 747 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_006305.4](#)

RefSeq Size: 2479 bp

RefSeq ORF: 750 bp

Locus ID: 8125

UniProt ID: [P39687](#)

Cytogenetics: 15q23

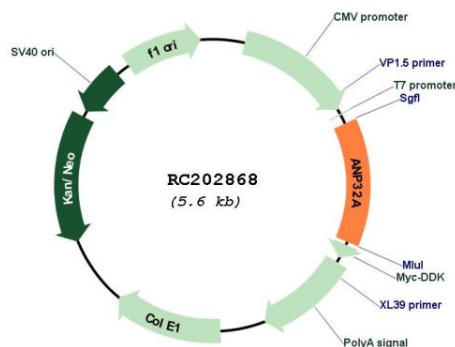
Domains: LRR, LRRcap

Protein Families: Druggable Genome, Stem cell - Pluripotency

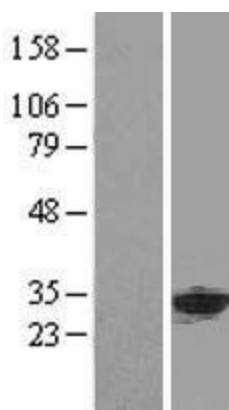
MW: 28.6 kDa

Gene Summary: Implicated in a number of cellular processes, including proliferation, differentiation, caspase-dependent and caspase-independent apoptosis, suppression of transformation (tumor suppressor), inhibition of protein phosphatase 2A, regulation of mRNA trafficking and stability in association with ELAVL1, and inhibition of acetyltransferases as part of the INHAT (inhibitor of histone acetyltransferases) complex. Plays a role in E4F1-mediated transcriptional repression.[UniProtKB/Swiss-Prot Function]

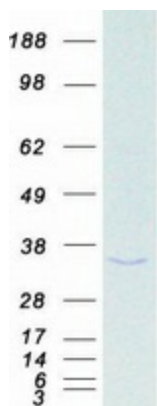
Product images:



Circular map for RC202868



Western blot validation of overexpression lysate (Cat# [LY416747]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202868 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANP32A protein (Cat# [TP302868]). The protein was produced from HEK293T cells transfected with ANP32A cDNA clone (Cat# RC202868) using MegaTran 2.0 (Cat# [TT210002]).