

## Product datasheet for **RG202868**

### 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:	TurboGFP
Symbol:	PHAP1
Synonyms:	C15orf1; HPPCn; I1PP2A; LANP; MAPM; PHAP1; PHAPI; PP32
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202868 representing NM_006305 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGATGGGCAGACGGATTTCATTTAGAGCTGCGGAACAGGACGCCCTCTGATGTGAAAGAACTTGTC  
TGGACAACAGTCGGTCGAATGAAGGCAAACCTCGAAGGCCCTCACAGATGAATTTGAAGAACTGGAATTCCT  
AAGTACAATCAACGTAGGCCTCACCTCAATCGCAAACCTACCAAAGTTAAACAACTTAAGAAGCTTGAA  
CTAAGCGATAACAGAGTCTCAGGGGCCCTGGAAGTATTGGCAGAAAAGTGTCCGAACCTCACGCATCTAA  
ATTTAAGTGGCAACAAAATTAAGACCTCAGCACAATAGAGCCACTGAAAAGTTAGAAAACCTCAAGAG  
CTTAGACCTTTTCAATTGCGAGGTAACCAACCTGAACGACTACCGAGAAAATGTGTTCAAGCTCCTCCCG  
CAACTCACATATCTCGACGGCTATGACCGGGACGACAAGGAGGCCCTGACTCGGATGCTGAGGGCTACG  
TGGAGGGCCTGGATGATGAGGAGGAGGATGAGGATGAGGAGGAGTATGATGAAGATGCTCAGGTAGTGGA  
AGACGAGGAGGACGAGGATGAGGAGGAGGAAGGTGAAGAGGAGGACGTGAGTGGAGAGGAGGAGGAGGAT  
GAAGAAGTTATAACGATGGAGAGGTAGATGACGAGGAAGATGAAGAAGAGCTTGGTGAAGAAGAAAGGG  
GTCAGAAGCGAAAACGAGAACCTGAAGATGAGGGAGAAGATGATGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202868 representing NM\_006305  
 Red=Cloning site Green=Tags(s)

MEMGRRIHLELRNRTPSDVKELVLDNSRSNEGKLEGLTDFELEEFLSTINVGLTSIANLPKLNKLLKLE  
 LSDNRVSGGLEVLAEKCPNLTHLNLSGNKIKDLSTIEPLKKLENLKSLLDFNCEVTNLNDYRENVFKLLP  
 QLTLYLDGYDRDDKEAPSDAEGYVEGLDDEEEDEDEEEYDEDAQVVEDEDEDEEEEGEEEDVSGEEED  
 EEGYNDGEVDDEEDEEELGEEERGQKRKREPEDEGEDDD

TRTRPLE - GFP Tag - V

**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:** 1136 bp

**RefSeq ORF:** 750 bp

**Locus ID:** 8125

**UniProt ID:** [P39687](#)

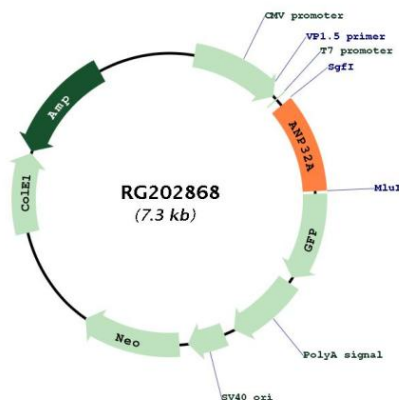
**Cytogenetics:** 15q23

**Domains:** LRR, LRRcap

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**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 RG202868