

## Product datasheet for RC216023

### ANP32D (NM\_012404) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ANP32D (NM\_012404) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ANP32D  
**Synonyms:** PP32R2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC216023 representing NM\_012404  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGATGGGCAAAATGGATTCAATTTAGAGCTGCGGAACAGGACGCCCTCCGATGTGAAAGAACTTTTCC  
TGGACAACAGTCAGTCAAATGAAGGCAAATTTGGAAGGCCCTCACAGATGAATTTGAAGAACTGGAATTATT  
AAATACAATCAACATAGGCCTCACCTCAATTGCAAACCTGCCAAAGTTAAACAACTTAAGAAGCTTGAA  
CTAAGCAGTAACAGAGCCTCAGTGGCCTAGAAGTATTGGCAGAAAAGTGTCAAACCTCATACTCTAA  
ATTTAAGTGGCAACAAAATTAAGACCTCAGCACAATAGAGCCCTGAAAAGTTAGAAAACCTCGAGAG  
CTTAGACCTTTTCACTTGGCAGGTAACCAACCTGAACAACCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC216023 representing NM\_012404  
Red=Cloning site Green=Tags(s)  
MEMGKWIHLELRNRTPSDVKELFLDNSQSNEGKLEGLTDFELEELELLNTINIGLTSIANLPKLNKLLKLE  
LSSNRASVGLVLAEKCPNLIHLNLSGNKIKDLSTIEPLKLENLESLLDFTCEVTNLNNY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8115\\_d10.zip](https://cdn.origene.com/chromatograms/mk8115_d10.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_012404

**ORF Size:** 393 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\\_012404.3](#)

**RefSeq Size:** 396 bp

**RefSeq ORF:** 396 bp

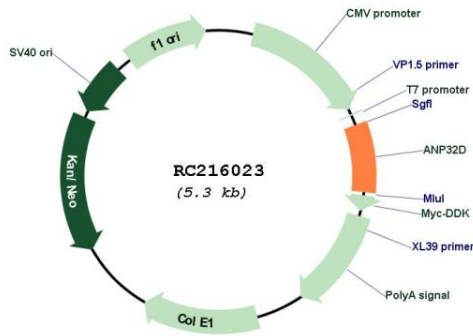
**Locus ID:** 23519

**UniProt ID:** [O95626](#)

**Cytogenetics:** 12q13.11  
**Domains:** LRR  
**MW:** 14.6 kDa

**Gene Summary:** Phosphoprotein 32 (PP32) is a tumor suppressor that can inhibit several types of cancers, including prostate and breast cancers. The protein encoded by this gene is one of at least two proteins that are similar in amino acid sequence to PP32 and are part of the same acidic nuclear phosphoprotein gene family. However, unlike PP32, the encoded protein is tumorigenic. The tumor suppressor function of PP32 has been localized to a 25 amino acid region that is absent in the protein encoded by this gene. This gene does not contain introns. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC216023