

Product datasheet for RC215880

ANP32C (NM_012403) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANP32C (NM_012403) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANP32C
Synonyms:	PP32R1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215880 representing NM_012403 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGATGGGCAGACGGATTTCATTTCAGAGCTGCGGAACAGGGCGCCCTCTGATGTGAAAGAACTTGCCC
 TGGACAACAGTCGGTCGAATGAAGGCAAACCTCGAAGCCCTCACAGATGAATTTGAAGAACTGGAATTCCT
 AAGTAAATCAACGGAGGCCTCACCTCAATCTCAGACTTACCAAAGTTAAAGTTGAGAAAGCTTGAACCTA
 AGAGTCTCAGGGGCTGGAAGTATTGGCAGAAAAGTGCCAAACCTCACGCATCTATATTTAAGTGCCA
 AAAAAATTAAGACCTCAGCACAATAGAGCCACTGAAACAGTTAGAAAACCTCAAGAGCTTAGACCTTTT
 CAATTGCGAGGTAACCAACCTGAACGACTACGGAGAAAACGTGTTCAAGCTTCTCCTGCAACTCACATAT
 CTCGACAGCTGTTACTGGGACCAAGGAGGCCCTTACTCAGATATTGAGGACCACGTGGAGGGCCTGG
 ATGACGAGGAGGAGGAGGTGAGCATGAGGAGGAGTATGATGAAGATGCTCAGGTAGTGGAAGATGAGGAGGG
 CGAGGAGGAGGAGGAGGAAGGTGAAGAGGAGGACGTGAGTGGAGGGGACGAGGAGGATGAAGAAGGTTAT
 AACGATGGAGAGGTAGATGGCGAGGAAGATGAAGAAGAGCTTGGTGAAGAAGAAAGGGGTGAGAAGCGAA
 AA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC215880 representing NM_012403
 Red=Cloning site Green=Tags(s)

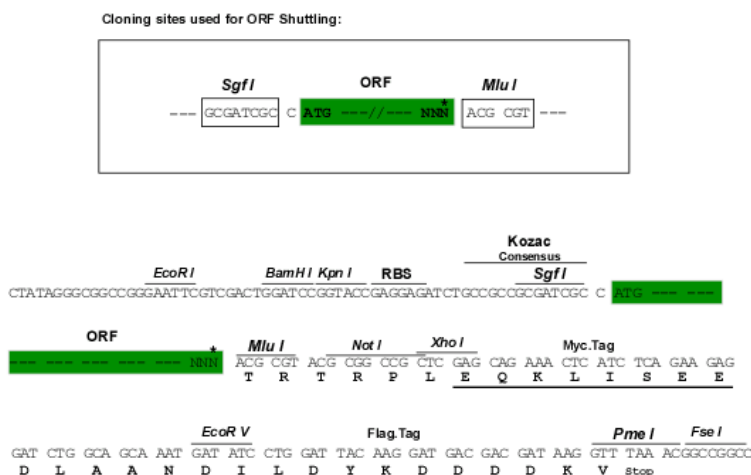
MEMGRRIHSELNRNAPSVDKELALDNSRSNEGKLEALTDFELEEFLSKINGGLTSISDLPKLKLRLKLEL
 RVSGGLEVLAEKCPNLTHLYL SGNKIKDLSTIEPLKQLENLKSLDLNFCEVTNLNDYGENVFKLLQLTY
 LDSCYWDHK EAPYSDIEDHVEGLDDEEEGEHEEEYDEDAQVVEDEEGEEEEEEEEEEEDVSGGDEEDEEGY
 NDGEVDGEEDFEELGEEERGOKRK

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6488_d02.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM 012403

ORF Size: 702 bp

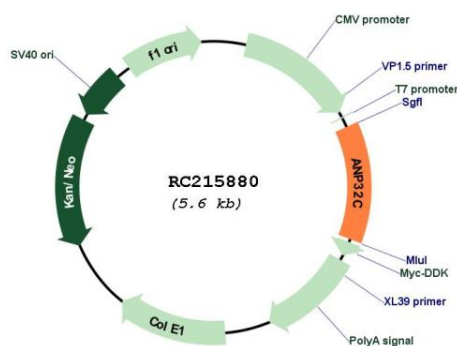
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

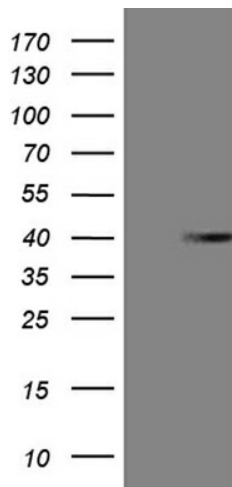
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_012403.1, NP_036535.1</u>
RefSeq Size:	705 bp
RefSeq ORF:	705 bp
Locus ID:	23520
UniProt ID:	<u>O43423</u>
Cytogenetics:	4q32.3
MW:	26.6 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 divergent between PP32 and the protein encoded by this gene. This gene does not contain introns. [provided by RefSeq, Jul 2008]

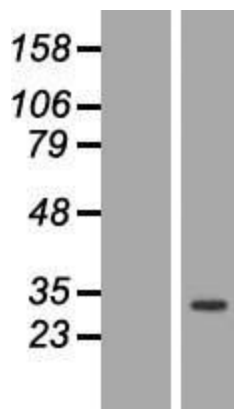
Product images:



Circular map for RC215880



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ANP32C (Cat# RC215880, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ANP32C (Cat# [TA809613])(1:2000). Positive lysates [LY415781] (100ug) and [LC415781] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415781]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215880 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).