

Product datasheet for **RC205448**

KPNA4 (NM_002268) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KPNA4 (NM_002268) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KPNA4
Synonyms:	IPOA3; QIP1; SRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205448 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGACAACGAGAACTGGACAACCAACGGCTCAAGAATTTCAAGAACAAGGCCGCGACTTGGAGA
 CTATGAGAAGACAACGAAATGAAGTTGTAGTTGAATTAAGGAAGAATAAAAGAGATGAACATCTCTTAAA
 GAGAAGGAATGTACCACATGAAGATATCTGTGAAGACTCTGATATAGATGGTGATTATAGAGTGCAAAAT
 ACCTCTCTAGAAGCTATTGTTCAAAATGCTTCAAGTGATAACCAAGGAATTCAATTAAGTGCAGTCAAG
 CTGCTAGGAAGCTTTTGTCCAGTGATCGAAATCCACCAATTGATGACTTAATAAAATCTGGAATATTGCC
 CATTAGTCCATTGTCTTGAAGAGATGACAATCCTTCTTACAGTTTGAAGCTGCATGGGCTTTGACA
 AACATTGCATCTGGAATTCTGAACAACTCAAGCAGTAGTTCAGTCCAATGCTGTGCCACTTTCTCTGA
 GGCTTCTCCATCACCCATCAGAAATGTCTGTGAGCAAGCAGTGTGGCATTGGGAAATATCATAGGTGA
 TGGGCCCCAGTGTAGAGATTATGCATAAGTCTTGGAGTTGTGAAACCTTACTTTCCTTCATAAGTCCA
 TCTATTCTATAACATTCTTAAGAAATGTTACTTGGGTTATGGTCAACTTATGTCGCCACAAAGACCCAC
 CACCACCAATGGAACCATTTCAGGAGATTCTTCCAGCCCTTTGTGTTTTAATTCATCACACAGATGTAAA
 TATACTGGTAGACACAGTCTGGGCCCTCTTACCTTACTGATGCTGGCAATGAACAAATACAGATGGTA
 ATAGACTCTGGAATAGTTCCTCATTGGTTCTCTGCTCAGCCACCAGGAAGTTAAAGTTTCAGACTGCTG
 CACTTAGAGCTGTGGGCAACATTGTTACTGGAAGTGTGAGCAACACAAGTAGTTTTGAACTGTGATGC
 TCTTTCACACTTCCCAGCACTCTGACACATCCCAAAGAGAAAATTAATAAAGAAGCAGTGTGGTTCCCT
 TCCAACATCACTGCAGGAAATCAGCAGCAGGTACAGGCAGTAATTGATGCCAATCTTGTACCAATGATAA
 TACACCTTTTGGATAAGGGGGATTTTGGCACTCAAAAAGAAGCTGCTTGGGCCATAAGTAACTTAACAAT
 TAGTGGAAAGGAAAGATCAAGTGGCTTACCTTATCCAACAAAATGTTATCCACCTTTTGAACCTTGTCTG
 ACTGTAAGAAGATGCAACAAGTTGTGCAAGTAGTACTCGATGGACTAAGTAATATATTAATAAATGGCTGAAG
 ATGAGGCAGAAACCATAGGCAATCTTATAGAAGAATGTGGAGGGCTGGAGAAAATGAACAACTTCAAAA
 TCATGAAAATGAAGACATCTACAAATGGCCTATGAGATCATTGATCAGTCTTCTCTTCAGATGATATT
 GATGAAGACCCTAGCCTTGTCCAGAGGCAATTCAAGGCGGAACATTTGGTTTCAATTCATCTGCCAATG
 TACCAACAGAAGGGTTCCAGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205448 protein sequence
 Red=Cloning site Green=Tags(s)

MADNEKLDNQRLLKFNKGRDLETMRQRNEVVVELRKNKRDEHLLKRRNVPHEDICEDSDIDGDYRVQN
 TSLEAIVQNASSDNQGIQLSAVQAARKLLSSDRNPPIDDLIKSGILPILVHCLERDDNPSLQFEAAWALT
 NIASGTSEQTQAVVQSNVPLFLRLLHSPHQNVCEQAVWALGNIIGDGPQCRDYVISLGVVKPLLSFIS
 SIPITFLRNVTWVMNLCRHKDPPPMETIQEILPALCVLIHHTDVENILVDTVWALSYLTDAGNEIQMV
 IDSGIVPHLVPLLSHQEVKQTAALRAVGNIVTGTDEQTQVVLNCDALSHFPALLTHPKEKINKEAVWFL
 SNITAGNQQVQAVIDANLVPMIHLKDKGDFGTQKEAAWAINLTI SGRKDQVAYLIQQNVIPFCNLL
 TVKDAQVVQVLDGLSNILKMAEDEAETIGNLIEECGGLEKIEQLQNHENEDIYKLAYEIIDQFFSSDDI
 DEDPSLVPEAIQGGTFGFNSSANVPTEGFQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6138_c08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_002268

ORF Size: 1563 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: [NM_002268.5](#)

RefSeq Size: 8981 bp

RefSeq ORF: 1566 bp

Locus ID: 3840

UniProt ID: [O00629](#)

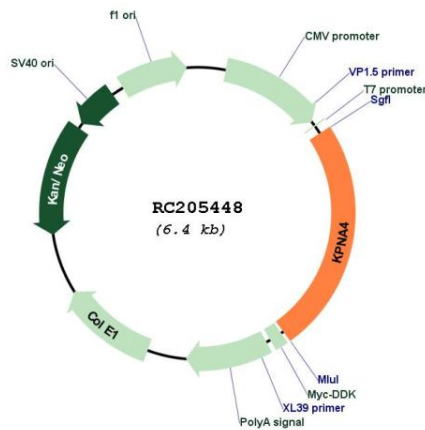
Cytogenetics: 3q25.33

Domains: Armadillo_seg, IBB

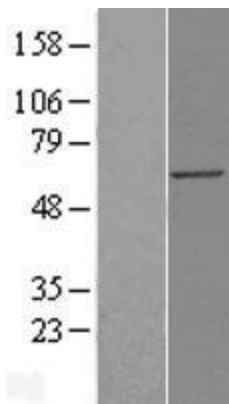
MW: 57.9 kDa

Gene Summary: The nuclear import of karyophilic proteins is directed by short amino acid sequences termed nuclear localization signals (NLSs). Karyopherins, or importins, are cytoplasmic proteins that recognize NLSs and dock NLS-containing proteins to the nuclear pore complex. The protein encoded by this gene shares the sequence similarity with *Xenopus* importin-alpha and *Saccharomyces cerevisiae* Srp1. This protein is found to interact with the NLSs of DNA helicase Q1 and SV40 T antigen. [provided by RefSeq, Jul 2008]

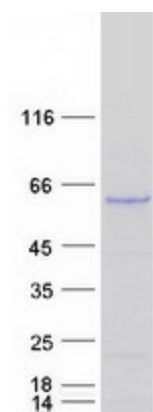
Product images:



Circular map for RC205448



Western blot validation of overexpression lysate (Cat# [LY400822]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205448 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KPNA4 protein (Cat# [TP305448]). The protein was produced from HEK293T cells transfected with KPNA4 cDNA clone (Cat# RC205448) using MegaTran 2.0 (Cat# [TT210002]).