

Product datasheet for **MC217424**

Kpna3 (NM_008466) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kpna3 (NM_008466) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kpna3
Synonyms:	IPOA4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >MC217424 representing NM_008466
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGAGAACCCCGCTTGGAGAACCACCGCATCAAGAGCTTCAAGAACAAGGCCGGATGTGGAGA
 CGATGCGAAGACACAGAAATGAAGTGACAGTTGAACTCCGGAAGAACAAAAGAGACGAACACTTACTGAA
 AAAGAGAAATGTTCCCAAGAAGAAAGCTTAGAAGATTAGATGTTGATGCTGATTTTAAAGCACAAAAT
 GTAACACTAGAAGCTATATTACAGAATGCCACAAGTGATAATCCTGTAGTCCAGTTGAGTGTGCAGG
 CAGCAAGGAACTATTATCCAGTGACAGAAATCCACCAATTGATGACCTAATAAAATCTGGGATTTTACC
 AATTCTAGTCAAATGTCTAGAAAGAGATGATAATCCTTCATTACAGTTTGAAGTCTGGGCACTAACT
 AATATAGCATCGGGAACCTTGCACAGACTCAAGCTGTTGTACAGTCTAATGCAGTACCCTTTTCTGC
 GACTCCTCCATCCACATCAGAAATGTTGTGAACAAGCGGTGTGGGCTTTGGGAAACATTATAGTGGA
 TGGTCCTCAATGTAGAGATTATGCATATCACTGGGAGTTGTCAAACCTTCTGTCTTCAATCC
 TCCATCCCATCACCTTCTTCCGGAACGTACATGGGTCAATTGTCAATCTCTGCAGGAATAAAGACCC
 CACCGCTATGGAGACAGTTCAGGAGATTTGCCAGCTTTGTGTGTGCTCATCTACCATACGGACATAAA
 TATTCTTGAGACTGTTTGGGCGCTGTACTACTTGACAGACGGGGAAATGAGCAATACAGATGGTT
 ATTGATTCAGGGGTTGTACCTTCTCGTACCCCTTCTGAGCCACCAGGAAGTCAAAGTTCAAATGCAG
 CACTCAGAGCGGTTGGGAACATAGTGACTGGCACTGATGAGCAGACCCAGGTGGTTCTCAACTGTGATGT
 CCTGTCCCACTTCCAAACCTTGTGCACCCAAAAGAGAAAATAAATAAGGAAGCAGTATGGTTCCTT
 TCCAATATAACAGCAGGCAATCAGCAGCAAGTTCAAGCTGTAATAGATGCTGGGTTAATCCCTATGATTA
 TTCATCAGCTCGCTAAGGGGGACTTTGGAACACAAAAGGAAGCTGCTTGGGCAATTAGCAACTTAACGAT
 AAGTGGCAGAAAAGATCAAGTTGAATACCTTGTACAGCAGAACGTAATACCACCATTCTGTAACCTACTG
 TCAGTAAAAGATTCTCAAGTGGTGCAGGTGGTTCTAGATGGTCTTAAAAACATCCTGATAATGGCTGGT
 ATGAAGCAAGCACAATAGCTGAGATCATAGAAGAGTGTGGAGTTTGGAGAAAATTGAAGTTTGCAGCA
 ACATGAAAATGAAGACATATATAAATTAGCATTGAAATCATAGATCAATATTTCTGTGTGATGATATT
 GATGAAGATCCTAGCCTCATTCCAGAAGCAACACAAGGAGGTAACAATTTTGACCAACAGCCAACC
 TTCAAACAAAAGAATTTAATTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_008466

Insert Size: 1566 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_008466.5](#), [NP_032492.1](#)

RefSeq Size: 4167 bp

RefSeq ORF: 1566 bp

Locus ID: 16648

UniProt ID: [O35344](#)

Cytogenetics: 14 D1

Gene Summary: Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1. Binds specifically and directly to substrates containing either a simple or bipartite NLS motif. Docking of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to importin-beta and the three components separate and importin-alpha and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran from importin. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS.[UniProtKB/Swiss-Prot Function]