

Product datasheet for **MC217568**

Kpna6 (NM_008468) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kpna6 (NM_008468) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kpna6
Synonyms:	IPOA7; Kpna5; NPI-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217568 representing NM_008468
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGACCATGGCAAGCCAGGAAGGACAATTATCGAATGAAGAGCTATAAGAACAATGCCTTAAACC
 CTGAGGAAATGAGACGAAGGAGGGAGGAAGAGGCATTACGTTTCGAAAACAGAAGCGGGAACAACAAC
 TTTTAAACGGAGAAATGTAGAGCTGATTAAATGAAGAAGCTGCCATGTTTGATAGTCTGCTGATGGATTCC
 TACGTGAGCTCTACAACCTGGGAGAGCGTGATCACGAGAGAGATGGTAGAGATGCTCTTCTCGGACGACT
 CTGACTTGCAGTTAGCAACCACGCAGAAATTCGGAAACTCCTGTCCAAAGAGCCGAGTCTCCAATAGA
 TGAAGTTATTAACACTCCAGGAGTAGTTGATCGGTTTGTGGAGTTTCTGAAGAGAAATGAGAATTGTACA
 TTGCAGTTTGAAGCTGCCTGGGCTCTAACAAACATTGCCTCTGGAACGTCTCAGCAGACCAAAATGTCA
 TTGAAGCAGGAGCTGTCCCATTTTTATAGAGTACTTAACTCAGACTTTGAAGATGTACAAGAACAGGC
 AGTGTGGGCGCTTGGAAACATCGCTGGAGATAGCTCGTTTGCAGGGATTATGTCTTGAATTGCTCCATC
 CTTAACCCCTTGTTAACTCCTTACTAAGTCCACACGACTGACAATGACACGGAATGCAGTCTGGGCC
 TGTCAAACCTCTGCCGAGGCAAGAACCCTCCTCCAGAGTTTGCAAAGGTCTCTCCTTGTTGCTGTATT
 GTCCCGACTGCTCTTACGAGTACTCAGACTTGTGGCAGATGCTTGTGGGCCCTCTCTACCTGTCT
 GATGGCCCAATGAGAAGATCCAGGCAGTCATAGACTCTGGAGTCTGCCGGAGATTGGTAGAGCTTCTGA
 TGCACAACGATTACAAGTGGCGTCTCCTGCCTTGAGAGCTGTGGGTAATATTGCTACTGGGGATGACAT
 CCAGACCCAGGTCATTCTTAATTGTTTACGCCCTCCCTTGCTCCTCCACCTACTGAGCAGCTTAAGGAA
 TCAATCCGGAAGGAAGCTTGTGGACCATTTCAAACATCACTGCTGGCAACAGGGCTCAAATACAGGCTG
 TCATAGATGCAACATCTTCCCTGATTGATTGAAATCCTTCAGAAAGCAGAGTCCGTACAAGGAAAGA
 AGCAGCCTGGGCCATCACCAACGCCACATCAGGAGGAACCTCTGAGCAAATCAGGTACCTGGTACTACTG
 GGCTGCATTAAGCCCTGTGTGACTTGGTACTGTAATGGATTCAAAAATTGTGCAAGTGGCCCTCAATG
 GACTAGAGAACATTCTTCGGCTTGGAGAGCAAGAAAGCAAGCGTAGTGGCTCAGGGGTCAATCCCTACTG
 TGGCCTCATCGAGGAAGCCTATGGCTTGGATAAAATTGAGTTTCTCCAGAGCCACGAGAACCAGGAAATC
 TACCAGAAGGCCCTTGTGACTCATTGAGCACTACTTTGGTGTAGAGGATGACGACAGCAGCCTGGCTCCTC
 AGGTGGATGAGACGCAACAGCAGTTCATCTTCCAGCAGCCTGAGGCCCCATGGAGGGCTTCCAGCTATA
 A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_008468

Insert Size: 1611 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_008468.4](#), [NP_032494.3](#)

RefSeq Size: 5711 bp

RefSeq ORF: 1611 bp

Locus ID: 16650

UniProt ID: [O35345](#)

Cytogenetics: 4 D2.2

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.[UniProtKB/Swiss-Prot Function]