

Product datasheet for **RN212168**

Kpna5 (NM_001025113) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kpna5 (NM_001025113) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kpna5
Synonyms:	lpoa6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN212168 representing NM_001025113
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTAGTCCTGGTAAGGATAACTACAGAATGAAAAGTTACAAGAACAAGCCTTAAATCCTCAAGAGA
 TGCGAAGACGAAGAGAAGAAGAAGGAATCAACTTCGAAAACAAAAAGGGAGGAGCAGTTGTTCAAACG
 CAGAAATGTCTCTTTGCCAGAAATGATGACTGTATGCTGGAGAGCCCTATCCAGGACCCAGATGTCAGC
 TCCACTGTACCCATTCCAGAGGAAGACATGATCACAGCAGATATGATTCAGATGATTTTCTAATAACG
 CTGAACAGCAACTGACTGCAACACAGAAATTTAGAAAAGTCTTTCTAAAGAACCAATCCACCAATAGA
 TCAAGTTATACAGAAACCAGGAGTTGTACAGAGATTTGTGAAGTTTCTTGAAGAATGAAAATTGCACT
 TTACAATTCGAGGCTGCCTGGCGTTAACTAATATAGCATCTGGAACCTTTCTGCATACCAAGGTAGTGA
 TTGAAACCGGGGCTGTGCCAATTTTATCAGACTTCTCACTTCAGAACATGAAGATGTACAGGAACAGGC
 GGTTTGGGCACTTGGTAACATTGCTGGCGACAATGCAGAATGCAGGGATTTGTTTTGAATTGTGAATA
 CTCCACCTCTTTTAGAGTTATTAACAAATTCAAACAGACTTACAACCACAGAAATGCTGTATGGGCC
 TCTCAAATTTATGTAGAGGCAAAAACCCCTCCTCAAATTTTAGTAAGGTTTACCTTGCTTAAATGTCTT
 ATCCCAGTTGTTGTTTAGCAGTGATCCAGATGTGTAGCAGATGTGTGCTGGGCCCTTTCTATCTCTCT
 GATGGACCAATGATAAAATTCAGTAGTCATTGATTCTGGAGTCTGCCGAAGATTGGTGGAACTTTTGA
 TGCACAATGACTATAAAGTTGTATCACCTGCATTAAGAGCAGTTGGTAATATTGTAAGTGGTGATGACAT
 TCAAACACAGGTCATTTGAATTGTTCTGCATTGCCCTGCCTTTTACATTTGCTGGGAAGTCAAAGGAG
 TCAGTTAGAAAAGGAAGCCTGCTGGACCATTCTAACATCACTCGCGGAAACAGAATGCAGATCCAGGCTG
 TCATAGATGGAAGTATTTCCCTGTTTGTATTGAGGTCCTCCAGAAAGCAGAATTCGTACCAGAAAAGA
 AGCAGCGTGGGCTATAACCAATGCCACATCGGGAGGCGCTCCAGAGCAGATAAGGTATTTGGTAACCTTG
 GGCTGCATTAACCACTTTGTGACCTTTTACTGTGACTGCTGACTCCTCAAATAGTTCAAAGTGTCTTGAATG
 GACTTGAAAAATTTTACGCCTTGAGAACGAGAATCTAAGCAGAATGGAGTGGGCATCAATCCATACTG
 TGCTCTCATTGAAGAAGCGTACGGCTTGGATAAAATAGAGTTTCTGCAAAGTCATGAAAACCAGGAAAT
 TACCAGAAGGCTTTTATCTGATTGAACGCTATTTTGGTGTGGAGGAGGATGACCCTAGTCTCGTTCCTC
 AGGTGGATGAGCAGCAGCGGCAGTTTCTTTTACAGAGTGCAGGACCAGGAGAAGGCTTCCAGCTCTG
 A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001025113

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_001025113.1](#), [NP_001020284.1](#)

RefSeq Size: 1664 bp

RefSeq ORF: 1611 bp

Locus ID: 294392

UniProt ID: [Q56R16](#)

Cytogenetics: 20q11

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. Mediates nuclear import of STAT1 homodimers and STAT1/STAT2 heterodimers by recognizing non-classical NLSs of STAT1 and STAT2 through ARM repeats 8-9 (By similarity).[UniProtKB/Swiss-Prot Function]