

Product datasheet for **MR208345**

Kpna3 (NM_008466) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR208345 representing NM_008466
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGAGAACCCCGCTTGGAGAACCACCGCATCAAGAGCTTCAAGAACAAGGCCGCGATGTGGAGA
 CGATGCGAAGACACAGAAATGAAGTGACAGTTGAACTCCGGAAGAACAAAAGAGACGAACACTTACTGAA
 AAAGAGAAATGTTCCCAAGAAGAAAGCTTAGAAGATTAGATGTTGATGCTGATTTTAAAGCACAAAAT
 GTAACACTAGAAGCTATATTACAGAATGCCACAAGTGATAATCCTGTAGTCCAGTTGAGTCTGTGCAGG
 CAGCAAGGAACTATTATCCAGTGACAGAAATCCACCAATTGATGACCTAATAAAATCTGGGATTTTACC
 AATTCTAGTCAAATGTCTAGAAAGAGATGATAATCCTTCATTACAGTTTGAAGCTGCTTGGGCACTAACT
 AATATAGCATCGGGAACCTTGCACAGACTCAAGCTGTTGTACAGTCTAATGCAGTACCCTTTTCTGC
 GACTCCTCCATCCACATCAGAAATGTTTGTGAACAAGCGGTGTGGGCTTTGGGAAACATTATAGTGGA
 TGGTCCTCAATGTAGAGATTATGCATATCACTGGGAGTTGTCAAACCTTCTGTCTTCAATCAATCCC
 TCATTCCCATCACCTTCTTCCGGAACGTACATGGGTCAATTGTCAATCTCTGCAGGAATAAAGACCCCC
 CACCGCTATGGAGACAGTTTCCAGGAGATTTGCCAGCTTTGTGTGTGCTCATCTACCATACGGACATAAA
 TATTCTTGTAGACTGTTTGGGCGCTGTACTACTTGACAGACGGGGGAAATGAGCAAAATACAGATGGTT
 ATTGATTCAGGGGTTGTACCCCTTCTCGTACCCCTTCTGAGCCACCAGGAAGTCAAAGTTCAAATGCAG
 CACTCAGAGCGGTTGGGAACATAGTGACTGGCACTGATGAGCAGACCCAGGTGGTTCTCACTGTGATGT
 CCTGTCCCCTTCCAAACCTTGTGTACACCCAAAAGAGAAAATAAATAAGGAAGCAGTATGGTTCCCT
 TCCAATAAACAGCAGGCAATCAGCAGCAAGTTCAAGCTGTAATAGATGCTGGGTTAATCCCTATGATTA
 TTCATCAGCTCGCTAAGGGGGACTTTGGAACACAAAAGGAAGCTGCTTGGGCAATTAGCAACTTAACGAT
 AAGTGGCAGAAAAGATCAAGTTGAATACCTTGTACAGCAGAACGTAAATACCACCATTCTGTAACCTTACTG
 TCAGTAAAAGATTCTCAAGTGGTGCAGGTGGTTCTAGATGGTCTTAAAAACATCCTGATAATGGCTGGTG
 ATGAAGCAAGCACAATAGCTGAGATCATAGAAGAGTGTGGAGTTTGGAGAAAATTGAAGTTTTGCAGCA
 ACATGAAAATGAAGACATATATAAATTAGCATTGAAATCATAGATCAATATTTCTGTGTGATGATATT
 GATGAAGATCCTAGCCTCATTCCAGAAGCAACACAAGGAGGACTTACAATTTTGACCCAACAGCCAACC
 TTCAAACAAAAGAATTTAATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208345 representing NM_008466
 Red=Cloning site Green=Tags(s)

MAENPGLNHRIKSFKNKGRDVETMRRHRNEVTVELRKNKRDEHLLKRNVPQEESLESDVDADFKAQN
 VTLEAILQNATSDNPVQQLSAVQAARKLLSSDRNPPIDDLIKSGILPILVKCLERDDNPSLQFEAAWALT
 NIASGTSAQTAQVQSNVPLFLRLLHSPHQNVCEQAVWALGNIIGDGPQCRDYVISLGVVKPLLSFINP
 SIPITFLRNVTWVIVNLCRNKDPMPMETVQEILPALCVLIYHTDINILVDTVWALSYLETDGNEQIQMV
 IDSGVVPFLVPLLSHQEVKQTAALRAVGNIVTGTDEQTQVVLNCDVLSHFPNLLSHPKEKINKEAVWFL
 SNITAGNQQQVQAVIDAGLIPMIHQKAGDFGTQKEAAWAINSLTISGRKDQVEYLQQNVIPPFENLL
 SVKDSQVVQVLDGLKNILIMAGDEASTIAEIIIECGGLEKIEVLQHQHENEDIYKLAFAEIIDQYFSGDDI
 DEDPSLIPEATQGGTYNFDPTANLQTKENF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9075_e10.zip

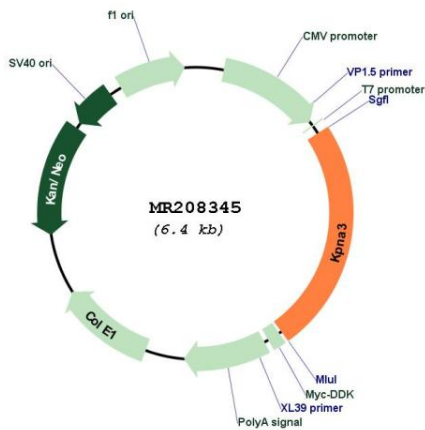
Restriction Sites:

Sgfl-MluI

MW: 57.8 kDa

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]

Product images:



Circular map for MR208345