

## Product datasheet for **MC217425**

### **Kpna4 (NM\_008467) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kpna4 (NM_008467) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kpna4
Synonyms:	1110058D08Rik; IPOA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC217425 representing NM\_008467  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGACAACGAGAAATTGGACAACCAACGGCTCAAGAATTTTAAACAAGGCCGTGACTTGGAGA  
 CTATGAGAAGACAACGAAATGAAGTTGTAGTTGAATTAAGGAAGAATAAAAGAGATGAACATCTCTTAAA  
 GAGAAGGAATGTACCACAAGAAGATATCTGTGAAGACTCCGATATAGATGGTGATTATAGAGTGCAAAAT  
 ACCTCTCTAGAAGCTATTGTTCAAAATGCTTCAAGTGATAACCAAGGAATTCAATTAAGTGCAGTTCAGG  
 CTGCTAGGAAGCTTTTATCCAGTGATCGAAATCCACCAATTGATGACTTAATAAAATCTGGAATATTGCC  
 TATTTTAGTTTATTGCTTGAAGAGATGACAATCCTTCTTTACAGTTTGAAGCTGCGTGGGCTTTGACA  
 AACATTGCATCTGGAACGTCTGAACAAACGCAAGCAGTGGTTCAGTCCAATGCTGTGCCACTTTTCTTGA  
 GGCTTCTGCATTCACCCATCAGAAATGTCTGTGAACAGGCAGTATGGGCGTTGGGAAACATCATAGGTGA  
 TGGACCTCAGTGTAGAGATTATGTGATAAGTCTTGGAGTTGTAACCTCTGCTTTCATTATAAGTCCA  
 TCTATTCTATAACATTTAAAGAAATGTTACCTGGGTTATGGTCAATTTATGTCGCCACAAAGACCCAC  
 CACCACCAATGGAGACAATTCAGGAGATTCTTCCAGCTCTTTGTGTATTAAATCATCACACAGATGTAAA  
 TATCCTGGTAGATACTGTCTGGGCCCTGTCTTACCTTACGGATGCTGGCAATGAACAGATACAGATGGTA  
 ATAGACTCTGGCATAGTTCTCACTTGGTTCGGCTACTCAGCCACCAGGAAGTTAAAGTTGAGACTGCTG  
 CACTGCGAGCTGTGGGCAACATTGTCACTGGAAGTGTGAGCAACACAAGTAGTTTTAACTGTGATGC  
 TCTCTCACACTTCCCAGCACTCCTCACTCATCCAAAGAGAAAATTAATAAAGAAGCAGTGTGGTTCCTC  
 TCCAACATCACTGCAGGAAATCAACAGCAGGTTTCAGGCAGTAATTGATGCCAATCTGTACCAATGATAA  
 TACACCTTTTGGATAAGGGAGATTTTGGCACTCAGAAAGAAGCTGCCTGGGCCATAAGTAACTTAAACA  
 CAGCGGAAGGAAAGACCAAGTGGCTATCTTATCCAACAAAATGTTATCCACCTTTTGAATTTGCTG  
 ACTGTAAGAAGATGCACAAGTTGTGCAAGTACTTGTGACTAAGTAATATATTAATAAATGGCTGAAG  
 ATCAAGCAGAAACCATAGCCAATCTCATAGAAGAATGTGGTGGACTGGAGAAAATGAACAACCTTCAGAA  
 TCATGAAAATGAGGACATCTACAAATGGCCTATGAGATCATTGACCAGTCTTCTCTTCAGATGATATT  
 GATGAAGATCCTAGCCTTGTCCAGAGTCAGTTCAAGGTGAACATTTGGTTTCAATTCATCGACCAATG  
 TACCAACAGAGGGTTCCAGTTTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_008467  
**Insert Size:** 1566 bp  
**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_008467.4</a> , <a href="#">NP_032493.1</a>
<b>RefSeq Size:</b>	3726 bp
<b>RefSeq ORF:</b>	1566 bp
<b>Locus ID:</b>	16649
<b>UniProt ID:</b>	<a href="#">O35343</a>
<b>Cytogenetics:</b>	3 E1
<b>Gene Summary:</b>	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]