

## Product datasheet for **SC115447**

### **KPNA6 (NM\_012316) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KPNA6 (NM_012316) Human Untagged Clone
Tag:	Tag Free
Symbol:	KPNA6
Synonyms:	IPOA7
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC115447 sequence for NM\_012316 edited (data generated by NextGen Sequencing)

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ATGGAGACCATGGCGAGCCCAGGGAAAGACAATTATCGAATGAAGAGCTATAAGAACAAT
GCTCTAAACCTGAAGAAATGAGACGAAGAAGAGAGGAAGAGGGCATTGAGCTCCGGAAG
CAGAAGCGAGAGCAACAACCTTTTTAAACGGAGAAATGTGGAGCTGATTAATGAAGAAGCT
GCCATGTTTCGATAGTCTTCTCATGGACTTTATGTGAGCTCTACCACTGGGGAGAGTGTG
ATCACAAGAGAGATGGTGGAGATGCTCTTTTCTGATGATTCTGACCTGCAGTTAGCAACC
ACACAGAAATCCGGAAACTGCTCTCAAAGAGCCTAGTCTCCAATAGATGAAGTTATC
AACACTCCAAGAGTGGTGGATCGGTTCTGAGGATTTCTGAAGAGGAATGAGAATTGTACA
TTACAGTTTGAAGCTGCCTGGGCTTAACGAATATTGCCTCTGGAACCTCTCAGCAGACC
AAAATTGTCATTGAAGCAGGGGCTGCCCCATTTTATAGAGCTGCTTAATTCAGACTTT
GAGGATGTTTCAGGAACAGGCAGTCTGGGCACTGGGAAACATAGCTGGAGATAGCTCTGTT
TGCCGAGATTACGTTTGAAGTGTCCATCCTTAATCCTTTGTTAACACTCCTTACCAAG
TCCACACGACTGACGATGACACGGAATGCAGTCTGGGCCCTGTCAAATCTCTGCCGAGGG
AAAAACCCACCCAGAGTTTGCAAAGTCTCTCCTTGTGCTGTACTGTCTCGCCTA
CTCTTCAGCAGCGACTCGGACTTGTGGCAGATGCTTGTGGGCCCTTTCTTATCTGTCT
GATGGCCCAATGAGAAGATCCAGGCAGTCATAGACTCCGGAGTCTGCCGGAGATTGGTA
GAGCTGCTGATGCACAATGATTACAAAGTGGCTTCTCCTGCCCTGAGAGCCGTGGGTAAC
ATCGTCACTGGGATGACATCCAGACCCAGGTCATTCTTAAGTGTTCAGCCCTACCTTGC
CTTCTCCACTTGTGAGCAGTCCCAAGGAGTCAATCCGGAAGGAAGCTTGTGGACTATT
TCAAATATTACTGCTGGCAACAGGGCTCAAATACAGGCTGTTATAGATGCAAATATCTTC
CCTGTGTTGATCGAAATCCTTCAGAAAGCAGAGTTTCGTACAAGGAAAGAGGCAGCCTGG
GCCATACCAATGCCACATCAGGAGGAACCCCTGAGCAGATCAGGTACCTGGTCTACTG
GGCTGCATCAAACCCCTATGTGACTTGTGACTGTAATGGATTGGAAGATTGTGCAAGTG
GCCCTCAATGGACTGGAGAACATCCTGCGGCTTGAGAGCAAGAGGGCAAGCGCAGTGGC
TCAGGGGTCAATCCTTATTGTGGCTCATAGAGGAAGCCTATGGCTTGGATAAAAATTGAG
TTTCTCCAGAGCCACGAGAACCAGGAGATCTACCAGAAGGCCCTTCGACCTCATTGAGCAC
TACTTTGGTGTAGAAGACGATGATAGCAGCCTGGCTCCCCAAGTCGATGAAACGCAACAG
CAGTTCATCTCCAGCAGCCTGAGGCCCATGGAGGGCTTCCAGCTATAA
    
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Clone variation with respect to NM\_012316.4

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_012316 unedited
TGATACGACTTACTATAGGCGGCCGCGATTCCGGCAGGAGGGAAAGCTGCCGCTGAAGC
TGCCCGCGTTGCCTCCGCCGCAAGAGTGAAGAGCTATAAGAACAATGCTCTAAACCTGAA
AGCCAGGGAAAGACAATTATCGAATGAAGAGCTATAAGAACAATGCTCTAAACCTGAA
GAAATGAGACGAAGAAGAGAGGAAGAGGGCATTGAGCTCCGGAAGCAGAAGCGAGAGCAA
CAACTTTTTAAACGGAGAAATGTGGAGCTGATTAATGAAGAAGCTGCCATGTTTCGATAGT
CTTCTCATGGACTTTATGTGAGCTCTACCACTGGGGAGAGTGTGATCACAAGAGAGATG
GTGGAGATGCTCTTTTCTGATGATTCTGACCTGCAGTTAGCAACCACACAGAAATCCGG
AAACTGCTCTCAAAGAGCCTAGTCTCCAATAGATGAAGTTATCAACTCCAAGAGTG
GTGGATCGGTTTCGTGGAGTTTCTGAAGAGGAATGAGAATTGTACATTACAGTTTGAAGCT
GCCTGGGCTTAACGAATATTGCCTCTGGAACCTCTCAGCAGACCAAAAATTGTCATTGAA
GCAGGGGCTGCCCCATTTTATAGAGCTGCTTAATTCAGACTTTGAGGATGTTTCAGGAA
CAGGCAGTCTGGGCACTGGGAAACATAGCTGGAGATAGCTCTGTTTCCGAGATTACGTC
TTGAACTGTTCCATCCTTAATCCTTTGTTAACACTCCTTACCAAGTCCACACGACTGACG
ATGACACGGAATGCAGTCTGGGCCCTGTCAAATCTCTGCCGAGGGAAAAACCCACCNCAG
AGTTGCAAAGTCTCTNCTGNTTGCCTGTACTGTCTCGCCTACTCTT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_012316 unedited GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTAACTGTAAGA GAATGGTTTTTTAATGGAGGTAGCAGGCCAAGTAAAAAAAAATTCTGCCCTGCCTTCC TGGGAGATTGGGAGTTGGCAGCCATCATTCTAAGCTGATGAGTGGCATATGACTCACCA AGGTGGTACAACATGGGTGGGATTTTTCAAGGACAATTGCCAGACCTAAACCATCCTCT CAGAAAAATGGCTTTGAAGTGGGACTGCAGCACTAGGAGAGGGCAAATTCAGATCAATGG CCAATAAAGTACCTGAACTTTAGGTCTATAAGCAGAAGGGCATGGATTTACCTGAGC CAGAAGGAGATGTGTAGCAATAGAAGCAAGAATGGCATTGTTTCAGAGGAAGGAAAAGCA GAGCTTGAGCAGGATGCCTCTGACTAACCACAGTGGGGAGGTGGGGTGGGGCAGACTG TGCTTCAGCTCCACAGCTGGTCTACACCAACTCCTCTACTCCCATCCAAACAGGTGGG CTTTACTATCATATGTAATCCACCCAGAGGCACAGGCAAGCCACTAAGGCAATGCACTAC CGTAATTCANACAGAAAGAAGAGGCATCTGGATTATAATTGTCAAGGAAGGGAAAACC CAAACCAGGTACAAGGATCCCAAACAGGGAAGATACGNCATAGCTCTAAAAAAAAAAAA AAAGCAGGCTACTAAGTTTCAGTGATAATAGATAATAGGAGAGGCAGCCCTGGGTGATCA GTTATGTGGACAATGGGCCATTGAGATTGAATTTTACAGGGCAACTGCTNCTGAGTTNC CTGATACAAGCAGGATGTTTCAGCAGTAGGACAGAGTAGCAGACTTCACCAGGCCCTGAG GCCATNCCTGCTCCCTTCAGTNCCTGGGAACATCAGGCCAGCTGAACTGCTTTATGAAGG TCCAAACTGAAGGTGGTCCCAGTGGTGGTCCCAATCCAGCGGAAGAAAAGACCACCTAGC CTT
<b>Restriction Sites:</b>	ECoRI-NOT
<b>ACCN:</b>	NM_012316
<b>Insert Size:</b>	4130 bp
<b>OTI Disclaimer:</b>	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).
<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_012316.3</a> , <a href="#">NP_036448.1</a>
<b>RefSeq Size:</b>	3984 bp
<b>RefSeq ORF:</b>	1611 bp
<b>Locus ID:</b>	23633
<b>UniProt ID:</b>	<a href="#">O60684</a>
<b>Cytogenetics:</b>	1p35.2
<b>Domains:</b>	Armadillo_seg, IBB

**Protein Families:** Druggable Genome

**Gene Summary:** Nucleocytoplasmic transport, a signal- and energy-dependent process, takes place through nuclear pore complexes embedded in the nuclear envelope. The import of proteins containing a nuclear localization signal (NLS) requires the NLS import receptor, a heterodimer of importin alpha and beta subunits also known as karyopherins. Importin alpha binds the NLS-containing cargo in the cytoplasm and importin beta docks the complex at the cytoplasmic side of the nuclear pore complex. In the presence of nucleoside triphosphates and the small GTP binding protein Ran, the complex moves into the nuclear pore complex and the importin subunits dissociate. Importin alpha enters the nucleoplasm with its passenger protein and importin beta remains at the pore. The protein encoded by this gene is a member of the importin alpha family. [provided by RefSeq, Jul 2008]